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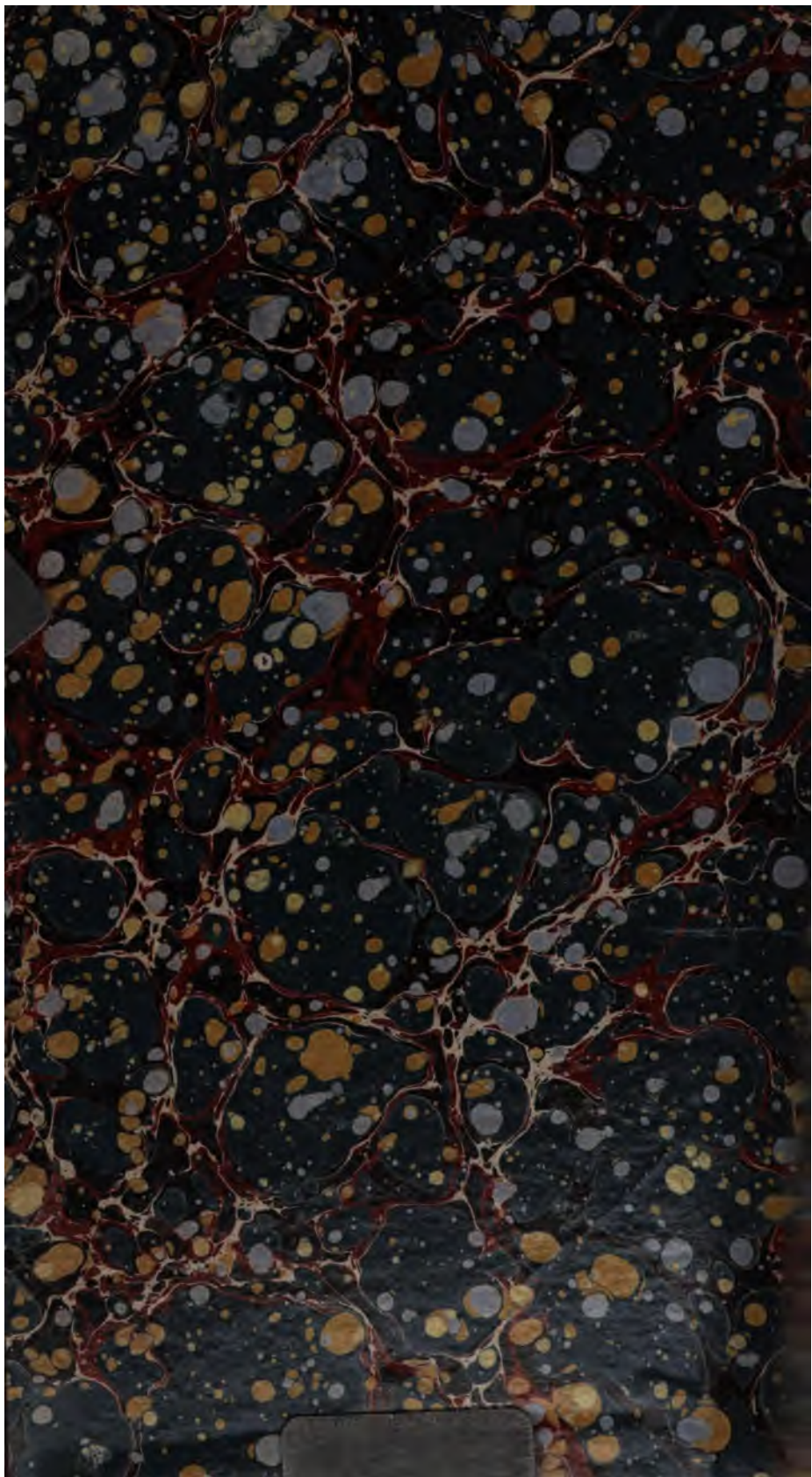
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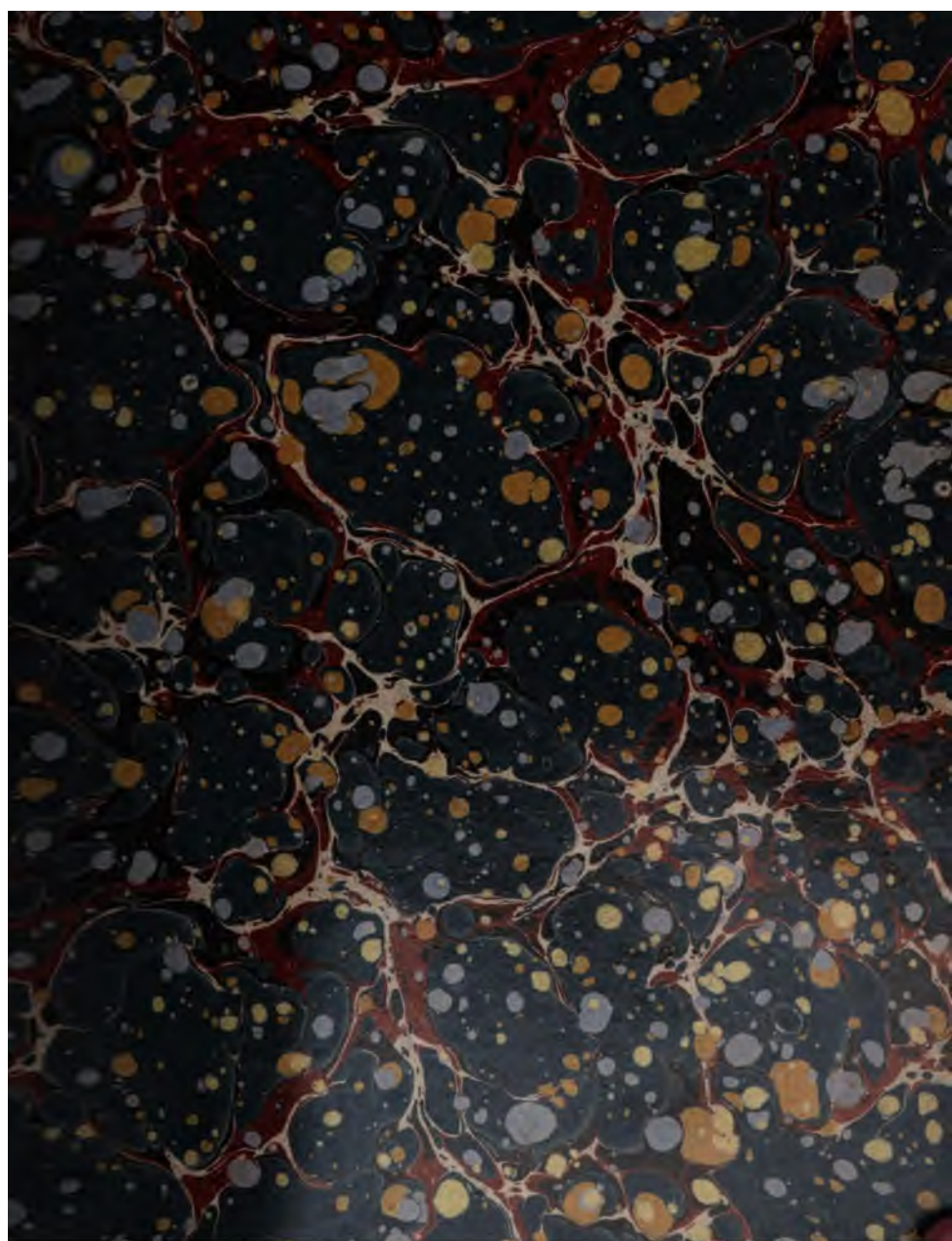
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MISCELLANEOUS COLLECTIONS.

VOL. V.



"EVERY MAN IS A VALUABLE MEMBER OF SOCIETY WHO BY HIS OBSERVATIONS, RESEARCHES,
AND EXPERIMENTS PROCURES KNOWLEDGE FOR MEN."—SMITHSON.

WASHINGTON:
PUBLISHED BY THE SMITHSONIAN INSTITUTION.
1864.



A. 14171

PHILADELPHIA:
COLLINS, PRINTER.

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ARTICLE II. CATALOGUE OF PUBLICATIONS OF THE SMITHSONIAN INSTITUTION. Corrected to June, 1862. June, 1862. Pp. 52.

ARTICLE III. LIST OF FOREIGN CORRESPONDENTS OF THE SMITHSONIAN INSTITUTION. Corrected to January, 1862. May, 1862. Pp. 56.

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THE present series, entitled "Smithsonian Miscellaneous Collections," is intended to embrace all the publications issued directly by the Smithsonian Institution in octavo form; those in quarto constituting the "Smithsonian Contributions to Knowledge." The quarto series includes memoirs embracing the records of extended original investigations and researches resulting in what are believed to be new truths, and constituting positive additions to the sum of human knowledge. The octavo series is designed to contain reports on the present state of our knowledge of particular branches of science: instructions for collecting and digesting facts and materials for research: lists and synopses of species of the organic and inorganic world: museum catalogues: reports of explorations: aids to bibliographical investigations, etc., generally prepared at the express request of the Institution, and at its expense.

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JOSEPH HENRY,
Secretary S. I.
(vii)

SMITHSONIAN MISCELLANEOUS COLLECTIONS.

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BIBLIOGRAPHY

OF

NORTH AMERICAN CONCHOLOGY

PREVIOUS TO THE YEAR 1860.

PREPARED FOR THE SMITHSONIAN INSTITUTION

BY

W. G. BINNEY.

/

PART I.

AMERICAN AUTHORS.



WASHINGTON:
SMITHSONIAN INSTITUTION.

MARCH, 1863.

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ADVERTISEMENT.

THE Smithsonian Institution has endeavored to procure the compilation of a series of Manuals of North American Conchology, of which several are now in press, and others in an advanced stage of preparation. The present work, which has been compiled by Mr. Binney, serves as a companion to the above mentioned series, and presents at one view the complete bibliography of the references in the other volumes.

Of the two parts into which the plan of Mr. Binney divides the work, Part I, with its three sections, is herewith presented. Part II is in press, and will embrace, in addition, a full index of authors, with a list of the publications of each, and a complete alphabetical index of all the names and synonyms, both generic and specific, referred to.

In order to render the work more perfect, a copy will be sent, as far as possible, to each living author mentioned, who is particularly requested to examine carefully and critically the account of his own writings, and to communicate to the Institution any errors or omissions, or any suggestions for improvement, to be incorporated into an appendix to Part II.

JOSEPH HENRY,
Secretary S. I.

SMITHSONIAN INSTITUTION,
WASHINGTON, March, 1863.

(ii)

PHILADELPHIA:
COLLINS, PRINTER.

PREFACE.

THE Bibliography of North American Conchology is intended to give a full account first, of the writings of American conchologists generally, and secondly, of such works of foreign authors as relate to the Shells or Mollusks of North America, as far south as about the Isthmus of Tehuantepec, and exclusive of the West Indies. It is therefore divided into two parts, as above indicated. Part I again separated into Section A, American descriptions of North American Mollusks, Section B, American descriptions of foreign Mollusks, and Section C, descriptions of foreign species by American authors in foreign works. Part I of the Bibliography, according to the above limitations, is herewith presented. Part II, to follow immediately, will complete the work and be accompanied by a full index of authors and names, and by a history of American Conchology.

It will be seen that each separate work or paper on the Recent Conchology of North America is taken up, its title and date given, its author's name, and a list of species therein described or in any important manner referred to, together with their synonymy, locality, and the volume, page, plate and figure relating to them. For their value as contributions to our knowledge of geographical distribution I have also quoted all the local lists of species, without descriptions. General works on Natural History and school books containing notices of conchology are sometimes referred to. They are too numerous and of too little importance to the scientific student to make it an object to include them all.

I have not included the Bryozoa. As it was necessary to draw the line between those to be omitted or quoted among the genera of doubtful position, I have decided to give only those included in the "Genera of Recent Mollusca," by H. and A. Adams.

The numerous typographical errors among the specific names of some of our works, especially local catalogues, have caused me some trouble and uncertainty. It was originally my intention to

correct them in my quotations, but it soon became evident that the better way would be to follow the original strictly. I have, therefore, done so, in the majority of cases. Many of the catalogues published without descriptions, and several of the general works not having been transcribed in my MSS., have been placed directly in the hands of the printer to be quoted. In these cases the original has been followed exactly. Generally it is easy to correct a typographical error—thus when an author describes a *Melania altalis*, it is evidently a mistake for *altilis*. And it is often easy to correct such errors as *Helix immitissima*, which my knowledge of the names of our *Helices*, would enable me to change to *minutissima*. But when I find a quotation of *Helix materna*, even my special knowledge does not enable me to decide whether the author refers to *Helix fraterna* or *Helix interna*. In genera which I have not personally studied I should have no clue of this kind to guide me. It has seemed best, therefore, to adopt the plan of giving a faithful reprint of the original. Any corrections of typography which my friends may make, should be confined, therefore, to my own errors, omitting those repeated from the original work.

The geographical limits to which I have confined my work are the whole continent of North America, including Greenland and the Arctic regions on the north, and including on the south the Mexican States of Chiapas and Tabasco. Thus the West Indies are not included, nor should one expect to find as perfect a quotation of the species of South Western Mexico as of any portion of the United States. My limits are such as to embrace the fauna of North America, but not that of Panama or the West Indies.

All the quotations are given from personal examination of the works quoted. The proof has generally been corrected from the original work, thus avoiding many errors committed in transcribing. As it cannot be hoped that no mistakes have escaped my scrutiny, I particularly desire any person to call my attention to any that may be noticed.

W. G. BINNEY.

BURLINGTON, N. J., March, 1863.

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PART I.
AMERICAN AUTHORS.

A.—WRITINGS ON AMERICAN SPECIES.

BIBLIOGRAPHY

OF

NORTH AMERICAN CONCHIOLOGY.

Rafinesque.—Monographie des Coquilles bivalves et fluviatiles de la rivière Ohio (contenant douze genres et soixante-huit espèces: par M. C. S. RAFINESQUE, Prof. de bot. et d'hist. nat. à l'Univ. Transylvane de Lexington. Extrait de la 15^{me} livraison du 5^{me} tome des Annales Générales des Sciences Physiques. Sept. 1820, Bruxelles.)

Poulson.—The same, translated by C. A. POULSON, Philadelphia, 1832, without the plates, and with a frontispiece of *Unio verrucosa* Raf.

Page.	Plate.	Fig.	Page of tr.	Name.	Locality.
FAM. PEDIFERIA.					
1 ^{re} Sous-fam. UNIODIA.					
1 ^{re} Genre UNIO .					
1 ^{re} Sous-genre Elliptio .					
25	LXXX	1-4	15	<i>nigra</i> Raf.	Ohio.
27			18	<i>crassa</i> Say.	
27			19	<i>viridis</i> Raf.	Ohio & Kentucky river.
28			20	<i>fasciata</i> Raf.	Ohio, Alleghany, &c.
28			20	<i>caroliniana</i> Bosc. (no des.)	
28			20	<i>plicata</i> Lesueur =	Lac Erie.
				var. d' <i>U. crassa</i> (no des.)	
28			20	<i>purpureus</i> Say (no des.)	Pennsylvania.
29			20	<i>aurata</i> Raf.	Hudson river.
				<i>plotorum</i>	
2 ^{me} Sous-genre Leptodea .					
29	LXXX	5-7	21	<i>leptodon</i> Raf.	Ohio.
29			22	<i>fragilis</i> Raf.	
30	LXXX	8-10	22	<i>nervosa</i> Raf.	Ohio river.

Page	Plate	Fig	Page of tr.	Name	Locality
30			23	3 ^{me} Sous-genre Aximedia.	
30	LXXX	11-13	24	elliptica Raf.	Louisville, Maysville
31			24	levigata Raf.	Kentucky river.
				zonalis Raf.	Ohio river.
31			25	4 ^{me} Sous-genre Eurytia.	
31	LXXX	14-15	25	dilatata Raf.	
32			26	latissima Raf.	
				solenoides Raf.	Ohio river.
				(3) U. cylindrica S.	
32	LXXX	16-19	27	2 ^{me} Genre LAMPSILIS.	
32			27	cardium Raf.	
33			28	ovata Say.	Kentucky.
33			28	fasciola Raf.	Hudson river.
33			28	rosea Raf.	Hudson river.
33			28	pallida Raf.	
34	LXXX	20-22	29	3 ^{me} Genre METAPTERA.	
34			30	megaptera Raf.	Ohio river.
34			30	ochraceus Say (no des.)	
			30	cariosus Say (no des.)	
34	LXXXI	1-4	31	4 ^{me} Genre TRUNCILLA.	
35			31	triqueter Raf.	Ohio river.
				truncata Raf.	
				5 ^{me} Genre OBLIQUARIA.	
				1 ^{re} Sous-genre Plagiola.	
36			33	decorticata Raf.	Ohio river, Mississippi
36			33	interrupta Raf.	Ohio river, Kentucky
36	LXXXI	5-7	34	depressa Raf.	Evansville, Indiana
37			35	lineolata Raf.	Ohio river.
				2 ^{me} Sous-genre Ellipsaria.	
37			35	ellipsaria Raf.	Kentucky river.
37			36	fasciolaris Raf.	Ohio river, &c.
38	LXXXI	10-12	37	verrucosa Raf.	Ohio river.
38	LXXXI	8-9	37	cuprea Raf.	Monongahela, Pot.
39			38	attenuata Raf.	Hudson river.
				3 ^{me} Sous-genre Quadrula.	
39	LXXXI	13-14	38	flava Raf.	Kentucky, &c.
39			39	cyphya Raf.	Ohio river.
39	LXXXI	15-16	39	metanevra Raf.	Kentucky.
40			40	reflexa Raf.	Kentucky river
40	LXXXI	19-20	41	retusa Raf.	Ohio and Kent.
40			41	sexuosa Raf.	Kentucky river
41	LXXXI	17-18	42	nodulata Raf.	Kentucky river
41			42	quadrula Raf.	Ohio river.
41			43	bullata Raf.	Ohio river.
				4 ^{me} Sous-genre Rotundaria.	
42			44	tuberculata Raf.	Ohio river.
42	LXXXI	21-23	44	subrotunda Raf.	Ohio river.
42			45	proclia Raf.	Ohio river.

Page.	Plate.	Fig.	Page of tr.	Name.	Locality.
				5^{me} Sous-genre <i>Scalenaria</i>.	
43			46	<i>obliquata Raf.</i>	Kentucky river.
43			47	<i>triangularis Raf.</i>	
43	LXXXI	24-25	47	<i>scalenia Raf.</i>	Kentucky river.
				6^{me} Sous-genre <i>Sintoxia</i>.	
44			47	<i>lateralis Raf.</i>	
44			48	<i>sintoxia Raf.</i>	Ohio river.
				II^{me} Sous-fam. AMBLEMIDIA.	
				6^{me} Genre <i>OBOVARIA</i>.	
45			49	<i>obovalls Raf.</i>	Ohio river, &c.
45	LXXXII	1-3	49	<i>torsa Raf.</i>	Ohio river.
45			50	<i>striata Raf.</i>	Ohio river.
46			51	<i>pachostea Raf.</i>	Kentucky river.
46	LXXXII	4-5	51	<i>stegaria Raf.</i>	Ohio river.
46	LXXXII	6-7	52	<i>cordata Raf.</i>	Ohio river.
				7^{me} Genre <i>PLEUROBEMA</i>.	
47	LXXXII	8-10	53	<i>mytiloides Raf.</i>	Wabash river.
47			53	<i>cuneata Raf.</i>	Ohio river.
				8^{me} Genre <i>AMBLEMA</i>.	
48			55	<i>olivaria Raf.</i>	Kentucky river.
48			55	<i>rubra Raf.</i>	Kentucky river.
48	LXXXII	11-12	56	<i>torulosa Raf.</i>	Kentucky and Ohio riv.
49			56	<i>gibbosa Raf.</i>	Ohio river, &c.
49	LXXXII	13-14	57	<i>costata Raf.</i>	Ohio and Kentucky riv.
				III^{me} Sous-fam. ANODONTIDIA.	
				9^{me} Genre <i>ANODONTA</i>.	
				1^{re} Sous-genre <i>Anodonta</i>.	
50			59	<i>An. marginata Say (no des.)</i>	
50			59	<i>cataracta Say (no des.)</i>	
50			59	<i>atra Raf.</i>	Hudson river.
50			59	<i>cuneata Raf.</i>	Hudson river.
				2^{me} Sous-genre <i>Strophitus</i>.	
50			60	<i>undulata Say (no des.)</i>	
				3^{me} Sous-genre <i>Lastena</i>.	
50			60	<i>Ohioensis Raf.</i>	Ohio river, &c.
51	LXXXII	17-18	61	<i>lata Raf.</i>	Kentucky river.
				IV^{me} Sous-fam. ALASMIDIA.	
				10^{me} Genre. <i>ALASMIDONTA</i>.	
51			62	<i>A. marginata Say.</i>	Scioto river.
52	LXXXII	15-16	63	<i>costata Raf.</i>	Kentucky river.

Page.	Plate.	Fig.	Page of tr.	Name.	Locality.
				V ^e me Sous-fam. CYCLADIA.	
				11 ^e me Genre CYCLAS.	
				Polymesoda.	
52			64	C. Caroliniana <i>Bosc.</i> (no des.)	
				Phymesoda.	
52			64	C. dubia <i>Say</i> (no des.)	
				Amesoda.	
52			64	C. similis <i>Say</i> (no des.)	
				Corbicula (MEGERLE).	Foreign species.
				—	
52	XXXXII	19-21	64	C. (Ameroda) lasmapsis <i>Raf.</i>	Ohio river, &c.
52			65	C. (Phymeroda) equalis <i>Raf.</i>	Ohio river.
				12 ^e me Genre TREMESIA.	
54	XXXXII	22-24	67	Tremesia patelloides <i>Raf.</i>	Ohio river.
54			67	Mytilus recurvus <i>Raf.</i>	New Orleans.
55			68	Unio (Euryntia) teres <i>Raf.</i>	Wabash river.
55			68	Obliquaria (Ellipsaria) sinuata <i>Raf.</i>	Kentucky river.
55			69	O. (Ellipsaria) atrovioleacea <i>Raf.</i>	Kentucky river.
55			69	O. (Plagiola) Cliffordiana <i>Raf.</i>	Kentucky river.
56			70	Unio (Amblema) antrorsa <i>Raf.</i> <i>Obovaria pachostia.</i>	

Rafinesque.—Continuation of the same. Philadelphia, Oct. 1831.

Page.	Name.	Locality.
2	Epiblasma n. g.	
2	biloba <i>Raf.</i>	Green and Kentucky rivers.
2	Toxalasma n. g.	
2	cyclips <i>Raf.</i>	Ohio and Mississippi rivers.
2	<i>U. abruptus</i> <i>Say</i> ?	
2	cinerescens <i>Raf.</i>	Ohio and Kentucky rivers.
2	lividus <i>Raf.</i>	Rockcastle river.
2	flexus <i>Raf.</i>	Kentucky river.
2	Bariosta <i>Raf.</i> n. g.	
2	ponderosa <i>Raf.</i>	Ohio and Mississippi rivers.
2	Lampsilis vittata <i>Raf.</i>	Green river.
2	Euryntia montana <i>Raf.</i>	Cumberland & Alleghany mts.
2	Lampsilis diploderma <i>Raf.</i>	Salt river.
3	Metaptera diaphana <i>Raf.</i>	Kentucky.
3	lasabrachys <i>Raf.</i>	Licking river.
3	Euryntia rimosa <i>Raf.</i>	Cumberland river.

Page.	Name.	Locality.
3	Lemiox Raf. n. s. g.	
3	Euryntia fulva Raf.	Green and Rockcastle rivers.
3	Obliquaria calendia Raf.	Dick river.
3	Venus Raf.	Kentucky & Cumberland riv's.
3	Aximedia Raf. n. s. g.	
3	Obliquaria plateolus Raf.	Cumberland river.
3	tenellus Raf.	Kentucky.
3	bicolor Raf.	Kentucky river.
3	violacea Raf.	
3	Unio dilatata Raf.	
3	pallens Raf.	Ohio and Kentucky.
3	rivularis Raf.	Cumberland mountains.
3	fontinalis Raf.	Cumberland mountains.
4	chloris Raf.	Cumberland mountains.
4	Sintoxia Raf.	
4	Obliquaria castanea Raf.	Kentucky.
4	Truncilla perplexa Raf.	Kentucky.
4	granulata Raf.	Salt river.
4	metaplata Raf.	Cumberland and Green rivers.
4	Unio pustulatus Raf.	} Are mentioned by name only.
4	punctatus Raf.	
4	scabar Raf.	
4	elegans Raf.	
4	badius Raf.	
4	crenulatus Raf.	
4	Unio latissima Raf.	
4	U. recta Lam?	
4	retusa Raf. = premorsus Raf.	
4	depressa Raf. = compressus Raf.	
4	sinuata Raf. = cultratus Raf.	
4	Subgenera of Alasmodonta .	
4	Lasmigona Raf.	
4	Amblasmodon Raf.	
4	Decurambis Raf.	
4	Sulcularia Raf.	
5	Pterosyna Raf. n. g. = Alasmodonta complanata Say.	
5	Alasmodon ponderosum Raf.	Ohio and Mississippi.
5	Gonambius Raf.	
5	Alasmodon rugosum Raf.	Tennessee river.
5	sulcatum Raf.	Tennessee and Mississippi.
5	viridis Raf.	Ohio river.
5	Amblasmodon hians Raf.	Tennessee river.
5	Decurambis scriptum Raf.	Green river.
5	atropurpureum Raf.	Cumberland River.
5	Sulcularia badium Raf.	Knobs.

Page.	Name.	Locality.
5	<i>papyracea Raf.</i>	East Kentucky.
5	<i>Lasmonos fragilis Raf.</i>	East Kentucky.
6	<i>Anodonta inflata Raf.</i>	Kentucky and Green river.
6	<i>digonota Raf.</i>	Lake Erie.
6	<i>rufa Raf. (no des.)</i>	
6	<i>Flexiptis Raf. n. s. g.</i>	
6	<i>Diplasma Raf. n. g.</i>	
	<i>marginata Raf.</i>	Tennessee?

Rafinesque.—*Apolosia*, the Mollusca: by C. S. RAFINESQUE.
(From *Annals of Nature*, No. 1, 1820, with descriptions.)

Page.	No.	Name.	Locality.
10		<i>Phylomycus Raf. n. g.</i>	
10	69	<i>quadrulus Raf.</i>	Hudson river.
10	70	<i>oxyurus Raf.</i>	New York.
10	71	<i>fuscus Raf.</i>	Ohio.
10	72	<i>flexuolaris Raf.</i>	Catskill mountains.
10		<i>Eumelus Raf. n. g.</i>	
10	73	<i>nebulosus Raf.</i>	Ohio, Kentucky.
10	74	<i>lividus Raf.</i>	Ohio, Kent'ky, Ind.
10	75	<i>gracilis Raf. (Deroceras?)</i>	Hendersonville, Ky.
10		<i>Hemilloma Raf. n. g. (univalve land shell).</i>	
10	76	<i>ovata Raf. (fossil?)</i>	Lexington.
11	77	<i>Pleurocera verrucosa Raf.</i>	Ohio river.

Lesueur.—Descriptions of several new species of Cuttle-fish:
by C. A. LESUEUR. (From *Journal of the Academy of Natural Sciences of Philadelphia*, vol. ii, part i, 1821.)

Vol.	Page.	Plate.	Name.	Locality.
ii	92	viii	<i>Loligo Pealeii Lesueur.</i>	C. of South Carolina?
ii	95	?	<i>illecebrosa Lesueur.</i>	Sandy Bay, Newfoundland.
ii	96	?	<i>pavo Lesueur.</i>	Sandy Bay.
ii	98	ix	<i>Onykia Carribæa Lesueur.</i>	Gulf of Mexico.

Barnes.—On the Genera *Unio* and *Alasmodonta*; with Introductory Remarks: by D. W. BARNES, M. A., Member N. Y. Lyc. Nat. Hist. (*American Journal Science and Art*, O. S. vi, No. 1, pp. 107–127; No. 2, pp. 258–280. Date of title, 1823.)

Page.	Fig.	Name.	Locality.
118	1	<i>Unio crassus Say.</i>	Ohio & Mississippi rivers; lakes.
		<i>U. crassidens Lam.</i>	
		<i>Mya ponderosa Dillw.?</i>	
120	2	<i>undulatus Barnes.</i>	Ohio river.
		<i>U. Peruciana? Lam.</i>	

Page.	Fig.	Name.	Locality.
120	3	Unio plicatus Say. <i>U. rariplicata</i> Lam.	Ohio, Mississippi, Wisconsin.
121	4	undatus Barnes. <i>U. obliqua</i> Lam.?	Wisconsin and Fox rivers.
122	5	cornutus Barnes.	Fox river.
123	6	verrucosus Barnes.	Wisconsin riv.; Lake Erie.
124	7	nodosus Barnes.	Wisconsin.
125	8	tuberculatus Barnes.	Wisconsin.
126	9	rugosus Barnes.	Ohio.
259	19	ellipticus Barnes. <i>U. crassus</i> Say. <i>Mya complanata</i> Dillw.	Fox river.
259	10	carinatus Barnes.	Fox river.
260		alatus Say.	Wisconsin.
261	11	prælongus Barnes. <i>U. purpurata</i> Lam.?	Wisconsin.
262	12	gibbosus Barnes.	Wisconsin.
263		cuneatus Barnes.	Ohio river.
264		purpureus Say. <i>U. purpurescens</i> Lam. <i>rarisulcata</i> Lam.? <i>coarctata</i> Lam.? <i>rhombula</i> Lam.? <i>carinifera</i> Lam.? <i>Georgina</i> Lam.?	East of Alleghany mts.
265		radiatus Dillw. <i>U. ochraceus</i> Say. <i>radiata</i> Lam.	North America.
266	13	mucronatus Barnes.	Wisconsin river.
266		inflatus Barnes.	Wisconsin riv. & Lake Erie.
267	14	ventricosus Barnes.	Wisconsin and Miss. rivers.
269	15	siliquoides Barnes.	Wisconsin river.
270		ovatus Say.	Ohio and Maumee rivers.
271		cariosus Say.	North America.
272	16	planus Barnes.	Wisconsin river.
272	17	triangularis Barnes.	Detroit river.
273		nasutus Say.	Delaware river.
274		gracilis Barnes. <i>U. alatus</i> Say.	Wisconsin riv. & the lakes.
274	18	parvus Barnes.	Fox river.
277	20	Alasmodonta arcuata Barnes.	West Canada Creek.
278	21	rugosa Barnes.	Fox river.
278	22	complanata Barnes.	Fox river, Wisconsin.
279		marginata Say. (no des.)	
279		undulata Say. (no des.)	

Lesueur.—Description of a new species of Cephalopode of the genus *Loligo*: by C. A. LESUEUR. (From Journal Acad. Nat. Sci. of Philadelphia, O. S., vol. iii, pt. 2, 1824.)

Vol.	Page.	Plate.	Name.	Locality.
3	282	x	<i>Loligo brevipinna</i> Lesueur.	Delaware Bay.

Lesueur.—Description of several new species of Ascidia: by C. A. LESUEUR. (From the same, vol. iii, pt. 1, 1823.)

Vol.	Page.	Plate.	Name.	Locality.
3	vii	4, 5	<i>Ascidia proboscidea</i> Lesueur.	Georgia.

(Only American species.)

Coates.—Remarks on the floating apparatus and other peculiarities of the genus *Janthina*: by REYNELL COATES, M. D. (In the Journal of the Academy of Natural Sciences of Philadelphia, vol. iv, pt. 2, p. 356–360, 1825.)

Barnes.—Notes on the *Murex corona* of Gmelin: by D. H. BARNES. (From the Annals of the New York Lyceum of Natural History, vol. ii, pp. 291, 292. Read Oct. 8, 1827. Date of title-page of vol. ii, 1828.)

Page.	Name.	Locality.
291	<i>Murex corona</i> Gmel.	Gulf of Mexico.
	<i>Fusus corona</i> Lam.	

Green.—Description of *Helix Pennsylvanicus*: by JACOB GREEN. (From the Contributions of the Maclurian Lyceum to the Arts and Sciences, vol. i, No. 1, p. 8. Philadelphia: Jan. 1827.)

Green.—Some remarks on the Unios of the United States, with a description of a new species: by JACOB GREEN, A. M., Prof. Chem. Jeff. Med. Coll. (From the same, vol. i, No. 2, p. 41. July, 1827.)

[Specific characters, variations, nacre, monstrosities, erosion, pearls, habits of various species, and facts concerning synonymy.]

Page.	Fig.	Name.	Locality.
46	iii	<i>Unio Æsopus</i> Green.	Pittsburg.

[Descriptions and figures of *Achatina Stewartii* and *A. Oahuensis* are given in the succeeding article, and in No. 3, by the same author.]

Barnes.—Reclamation of Unios: by D. H. BARNES. (Amer. Journal of Science and Arts, O. S., vol. xiii. No. 2, pp. 358–364. Date of title, Jan. 1828.)

[This paper forms a criticism of Valenciennes' Uniones in Humboldt and Bonpland's Zoological Observations.—W. G. B.]

Page.	
359	<i>Unio ovata</i> Val. = <i>U. cariosus</i> Say.
360	<i>Dombeyanus</i> = Conf. <i>U. rugosus</i> and <i>U. undulatus</i> .
360	<i>verrucosus</i> = <i>U. verrucosus</i> b. Barnes.
360	<i>tuberculosis</i> = <i>U. verrucosus</i> Barnes (young).
360	<i>rostratus</i> = <i>U. nasutus</i> Say non Lam.
361	<i>naviformis</i> Lam. = <i>U. cylindricus</i> Say.
361	<i>rectus</i> Lam.
361	<i>hians</i> = <i>Alasmodonta undulata</i> Say.
363	<i>Anodonta glauca</i> = <i>An. marginata</i> Say.
363	<i>purpurea</i> = <i>Alasmodonta</i> .

Hildreth.—Observations on, and descriptions of, the Shells found in the waters of the Muskingum River, Little Muskingum, and Duck Creek, in the vicinity of Marietta, Ohio: by S. P. HILDRETH, M. D. (In the American Journal of Science, O. S., vol. xiv, pp. 276–291, 1828. With two plates.)

Page.	Fig.	
278	1	<i>Unio crassus</i> .
278	2	<i>ellipticus</i> .
279	3	<i>cuneatus</i> .
279	4	<i>undulatus</i> .
280	5	<i>plicatus</i> . (Var. of <i>undatus</i> teste Barnes.—Eds. Jour.)
280	6, 7	<i>undatus</i> .
281	8	<i>verrucosus purpureus</i> .
281	9	<i>verrucosus albus</i> .
281	10	<i>nodosus</i> .
282	11	<i>tuberculatus</i> .
282	12	<i>rugosus</i> .
283	13	<i>cylindricus</i> .
283	14	<i>phaseolus</i> .
		(White var. of <i>cuneatus</i> teste Barnes.—Eds. Jour.)
284	15	<i>orbiculatus</i> .
284	16	<i>foliatus</i> [Hildreth].
		(New and distinct, Barnes.—Eds. Journal.)
285	17	<i>alatus</i> .
286	18	<i>prælongus</i> .
286	19	<i>gibbosus</i> .

Page.	Fig.	
286	20	Unio radiatus. (<i>U. ventricosus</i> (young) Barnes.—Ed. Jr.)
287	21	ovatus.
287	22	triangularis.
288	23	gracilis.
289	24	Alasmodonta rugosa.
289	25	complanata.
290	26	Anodonta undulata.
290	27	Paludina decisa.

Nicklin.—Conchological Observations on Lamark's Family of Naliades: by PHILIP HOULBROOKE NICKLIN. (From Transactions American Philosophical Society, N. S., vol. iii, pp. 395–399. Read March 6, 1829.)

Menke.—Synopsis methodica Molluscorum, etc., quæ in Museo-Menkeano adservantur; cum synonymia critica et novarum specierum diagnosisibus, auctore CAROLO THEODORO MENKE, M. D.^m. Pyramonti, 1830. Editio altera.

[I give only the American species described as new.—W. G. B.]

Page.	Name.	Locality.
132	Physa striata Menke.	Goshen, Mass.
132	subarata Menke.	Cincinnati.
133	Cyclostoma Mexicanum Menke.	Papantla, Mexico.
134	Paludina sulcosa Menke.	Cincinnati.
134	Melania cruentata Menke.	Cincinnati.
134	ovularis Menke.	Cincinnati.
135	angulosa Menke.	Cincinnati.
135	livescens Menke.	Lake Erie.
135	curta Menke.	Philadelphia.
135	exarata Menke.	Cincinnati.
136	ligata Menke.	Cincinnati.
136	fasciata Menke.	Philadelphia.
136	auriscalpium Menke.	Cincinnati.
137	Oxytrema crenulatum Menke.	Mexico.

Green.—Monograph of the Cores of North America, including three new species; by JACOB GREEN, M. D. (From Transactions of the Albany Institute, vol. I. Albany, 1830.)



Page.	Plate.	Fig.	Name.	Locality.
122	iii	1	<i>Conus mus</i> Brug.	Florida Keys.
123	iii	4	<i>Leucosticus</i> Gmel.	Florida Keys.
123	iii	3	<i>Pealii</i> Green.	Keys Vache.
123	iii	5, 6	<i>mamillaris</i> Green.	Florida.
124	iii	2	<i>Marylandicus</i> Green (fossil).	Maryland.
124			<i>deluvianus</i> Green (fossil)	St. Mary's, Md.

(Remarks on *Pecten Clintonius* Say, fossil.)

Green.—On the *Dolia* of the United States: by same. (From the same work.)

Page.	Plate.	Name.	Locality.
131	iv	<i>Dolium zonatum</i> Green.	Western coast.
132		<i>perdix</i> Lin.	Chesapeake Bay to Florida.
132		<i>plumatum</i> Green.	
		<i>Buccinum maculosum</i> Solander?	
133		<i>olearium</i> Lin.	Florida.

Green.—Notes on the American Shells figured in the Supplement to the *Index Testaceologicus*: by same. (From same work as above. No descriptions are given.)

- Page.
- 134 *Unio* (*Mya*) *rotunda* Wood = *U. circulus* Lea.
Mya oblongata.
nasuta.
undulata Wood, not *U. undulata* Barnes; *U. plicatus* Lesueur (teste Lea) is *U. Peruviana* Lam.
gravis and *cariosus*.
rugulosa is not *rugosus* Barnes (not a var. of *metanevra*).
obliquus Wood = *obliqua* Lam. or *scalenius* Raf.
- 135 *Castalia ambigua* not from U. S.
Unio rigida Wood.
praelonga Barnes = *rectus* Lam.
Hyria unguolata Wood not U. S.
Strombus noviboracenses Wood = *Nassa obsoleta*.
Helix angulata = *Planorbis bicarinatus*.
Paludina subcarinata Wood = *Pal. dissimilis*.
Helix fraterna Wood = *H. hirsuta* Say.
Paludina discissa Wood = *Pal. subcarinata* Say.
dissimilis Wood = *Pal. discisa* Say.
Virginica Wood = *Melania Virginica*.
- 136 *Polygyra auriculata* Say = *Helix Sayii* Wood.

(Also remarks on the American species of *Unio* in the British Museum. and notes on figures of Wood which are correctly named.)

Conrad.—On the Geology and Organic Remains of a part of the peninsula of Maryland: by TIMOTHY A. CONRAD. (In the Journal of the Academy of Natural Sciences of Philadelphia, vol. vi, pt. 2, pp. 205–217, 1830.)

The following species are said to be found recent on our coast:—

Page.		Page.	
207	<i>Crepidula convexa</i> Say.	208	<i>Psammobia fusca</i> Say.
207	<i>glauca</i> Say.	208	<i>lusoria</i> Say.
207	<i>Fusus cinereus</i> Say.	208	<i>Solen Caribæus</i> Linn.
207	<i>Nassa obsoleta</i> Say.	208	<i>ensis</i> Linn.
207	<i>trivittata</i> Say.	208	<i>Venus mercenaria</i> Lam.
207	<i>Natica duplicata</i> Say.	211	<i>Nassa trivittata</i> Say.
207	<i>Ranella caudata</i> Say.	211	<i>obsoleta</i> Say.
207	<i>Arca transversa</i> Say.	211	<i>lunata</i> Say.
207	<i>ponderosa</i> Say.	211	<i>Natica heros</i> Say.
207	<i>Corbula contracta</i> Say.	211	<i>Pyrula carica</i> Lam.
208	<i>Clathrodon cuneata</i> Gray.	211	<i>canaliculata</i> Lam.
	<i>Cyrena truncata</i> Lam.?	211	<i>Scalaria clathrus</i> .
208	<i>Macra lateralis</i> Say.	212	<i>Arca arata</i> Say.
208	<i>Mya mercenaria</i> Say.	212	<i>Cytherea concentrica</i> Lam.
208	<i>Mytilus hamatus</i> Say.	212	<i>Ostrea Virginica</i> Lam.
208	<i>Pandora trilineata</i> Say.	212	<i>Saxicava distorta</i> Say.
208	<i>Petricola pholadiformis</i>	212	<i>Venus paphia</i> ?
	Lam.	216	<i>Lucina divaricata</i> Lam.
	<i>P. fornicata</i> Say.	216	<i>Fissurella græca</i> Lam.
208	<i>Pholas costata</i> Lam.		

Conrad.—In the same volume of the Journal (pp. 256–268), are descriptions of fifteen new species of recent, and three of fossil shells, chiefly from the coast of the United States, by TIMOTHY A. CONRAD; with a plate. April, 1831.

Page.	Plate.	Fig.	Name.	Locality.
236			<i>Macra solidissima</i> Chemnitz.	
			<i>M. solida</i> var. <i>δ</i> Gmelin.	
			<i>M. procerus</i> Solander.	
			<i>M. grandis</i> Solander.	
			<i>M. scultorum</i> Solander.	
			<i>M. gigantes</i> Lamark.	
			<i>M. similis</i> Say.	
237	xi	1	<i>arcata</i> Conrad.	Massachusetts.
238	xi	2, 3	<i>tellinoides</i> Conrad.	Mass., R. I., Fl.
238	xi	4	<i>nucleus</i> Conrad.	New Jersey.
239	xi	5, 6, 7	<i>Cardium Mortoni</i> Conrad.	Northern coast.
239			<i>reticulatum</i> Conrad.	Massachusetts.

Page.	Plate.	Fig.	Name.	Locality.
20			Pecten Pealii Conrad.	Maine.
231	xi	12	Mya hyalina Conrad.	Northern coast.
231			Cytherea convexa Say.	R. I., N. J.
233	xi	11	Anatina Leana Conrad.	Northern coast.
233	xi	13	Mytilus leucophæatus Conrad.	Southern coast.
265			Remarks on Pecten Magellanicus .	
236	xi	17, 18	Velutina rupicola Conrad.	Massachusetts.
266	xi	19	Lacuna pertusa Conrad.	Massachusetts.
267	xi	20	Patella alveus Conrad.	Massachusetts.

Short; Eaton.—Notices of Western Botany and Conchology:
by C. W. SHORT, M. D., and H. H. EATON, A. M. (From the
Transylvania Journal of Medicine, Feb. 1831. No descrip-
tions are given, but full notes and the locality of each species.)

Page.		Page.	
74	Unio plicatus Lesueur.	77	Unio rectus Lea.
	<i>U. costata</i> Raf. ?		<i>U. pralongus</i> Barnes.
74	mytiloides Raf.	78	gibbosus Barnes.
	<i>U. undatus</i> Barnes.	78	cuneatus Barnes.
74	scalenius Raf.	78	ovatus Say.
75	ellipsis Lea.	78	occidens Lea.
75	sulcatus Lea.	78	triangularis Barnes.
75	ridibundus Say.	78	parvus Barnes.
75	torulosus Raf.	79	zigzag Lea.
	<i>U. cornutus</i> Barnes.	79	triqueter Raf.
	<i>U. foliatus</i> Hildreth.		<i>U. calceolus</i> Lea.
75	verrucosus Barnes.	79	monodonta Say.
76	metanever Raf.		<i>Alasmodonta costata</i> Raf. *
	<i>U. nodosus</i> Barnes.	80	Symphonota alata Lea.
	<i>U. rugosus</i> Barnes.		<i>U. alatus</i> Say.
76	lachrymosus Lea.	80	complanata Lea.
76	tuberculatus Barnes.		<i>Alasm. complanata</i> Barn.
76	cylindricus Say.	80	lævissima Lea.
76	cariosus Say.	80	gracilis Lea.
	<i>U. crassus</i> Say.		<i>U. gracilis</i> Barnes.
	<i>U. carinatus</i> Barnes.		<i>U. planus</i> Barnes.
	<i>U. ellipticus</i> Barnes.	80	tenuissima Lea.
77	phaseolus Hildreth.		<i>Anodonta lata</i> Raf. ?
	<i>U. planulatus</i> Lea.	81	Alasmodonta rugosa Barnes.
77	securis Lea.	81	Anodonta undulata Say.
	<i>U. depressa</i> Raf.	81	Cyclas similis Say.
77	torsus Raf.	82	Melania Sayii Wood.
77	circulus Lea.	82	<i>• Virginica</i> Say (Limnea).
77	irroratus Lea.	82	Paludina decisa Say.
		82	— ?

Rafinesque.—Enumeration and account of some remarkable Natural Objects in the Cabinet of Prof. RAFINESQUE, in Philadelphia. Philadelphia, Nov. 1831.

FLUVIATILE UNIVALVE SHELLS.

Page.	Name.	Locality.
2	<i>Pleurocera gonula Raf.</i>	Kentucky river.
3	<i>acuta Raf.</i>	Lake Erie.
3	<i>rugosa Raf.</i>	Western Kentucky.
3	<i>Melania (Ambloxus) rugosa Raf.</i>	Cumberland mountains.
3	<i>viridis Raf.</i>	Licking river.

LAND UNIVALVE SHELLS.

3	<i>Aplodon Raf. n. g.</i>	
3	<i>nodosum Raf.</i>	Kentucky.
3	<i>Stenostoma Raf. n. g.</i>	
3	<i>convexa Raf.</i>	Kentucky.
3	<i>Toxostoma Raf. n. g.</i>	
3	<i>globularis Raf.</i>	Kentucky.
3	<i>Mesodon Raf. n. g.</i>	
3	<i>maculata Raf.</i>	
3	<i>Trophodon Raf. n. g.</i>	
3	<i>Odomphium Raf. n. g.</i>	
3	<i>Omphalina Raf. n. g.</i>	
3	<i>cuprea Raf.</i>	Kentucky.
3	<i>Triodopsis Raf. n. g.</i>	
3	<i>lunula Raf.</i>	Kentucky.
3	<i>Menomphis Raf. n. s-g.</i>	
3	<i>Xolotrema Raf. n. g.</i>	
3	<i>clausa Raf.</i>	
3	<i>Agatina variegata Raf.</i>	Louisiana.
3	<i>fuscata Raf.</i>	Texas.

Green.—Notes of a Naturalist: by JACOB GREEN, M. D. (From the Cabinet of Natural History and American Rural Sports, vol. ii. J. & T. Doughty: Philadelphia, 1832.)

Page.	Name.	Locality.
241	<i>Unio capax Green.</i>	Falls of St. Anthony; Barre Trench.
291	<i>Meloloma rubella Green.</i>	Western Pennsylvania.
291	<i>Paludina Alleghaniensis Green.</i>	Mountains of Pennsylvania.

Anonymous.—Ohio Shells; a criticism on Notices of Western Botany and Conchology by C. W. SHORT, M. D., and H. HULBERT EATON, A. M. (R. S); and Monograph of the Bivalve Shells of the river Ohio: translated from the French of Prof. RAFINESQUE by C. A. POULSON, Esq. (From the Monthly American Journal of Geology and Natural Science, vol. i, No. 8, pp. 370-377. Philadelphia, Feb. 1832.)

Investigator.—Remarks on the article contained in Silliman's Journal for April, 1832, entitled "Mr. Lea on the Naiades:" by INVESTIGATOR. (From the same, vol. i, No. 12, pp. 537-549. June, 1832.)

Page.	
543	<i>Unio occidentalis</i> Lea = <i>U. ventricosus</i> Barnes.
544	<i>oriens</i> Lea = <i>U. dehiscens</i> Say.
544	<i>trapezoides</i> Lea = <i>U. interruptus</i> Say.
544	<i>multiplicatus</i> Lea = <i>U. heros</i> Say.
544	<i>ellipsalis</i> Lea = <i>U. olivaria</i> Rafinesque.
545	<i>irroratus</i> Lea = <i>U. stegaria</i> var. Rafinesque.
545	<i>planulatus</i> Lea = <i>U. fasciolaris</i> Rafinesque.
545	<i>circulus</i> Lea = <i>U. striata</i> var. <i>rosea</i> Rafinesque.
	<i>U. orbiculatus</i> } are also remarked on.
	<i>torsus</i> }
	<i>rotundata</i> }
545	<i>patulus</i> Lea = <i>U. cuneata</i> Rafinesque.
545	<i>rubiginosus</i> Lea = <i>U. flava</i> Rafinesque.
546	<i>donaciformis</i> Lea = <i>U. truncata</i> Rafinesque.
546	<i>securis</i> Lea = <i>U. depressa</i> Rafinesque.
546	<i>pustulosus</i> Lea = <i>U. bullata</i> Rafinesque.
546	<i>pustulatus</i> Lea = <i>U. nodosa</i> Rafinesque.
546	<i>soleniformis</i> Lea = <i>U. monodonta</i> Say.
546	<i>perplexus</i> Lea = <i>U. gibbosa</i> Rafinesque.
546	<i>pileus</i> Lea = <i>U. flexuosus</i> Rafinesque.
546	<i>sulcatus</i> Lea = <i>U. obliquata</i> Rafinesque.
546	<i>pyramidatus</i> Lea = <i>U. rubra</i> Rafinesque.
546	<i>lachrymosus</i> Lea = <i>U. metanerra</i> Rafinesque?
	<i>U. metanerra</i> Rafinesque, is not <i>U. quadrulata</i> .
546	<i>asperrimus</i> Lea = <i>U. rugosus</i> Barnes.
546	<i>brevidens</i> Lea = <i>U. depressa</i> Rafinesque.
546	<i>varicosus</i> Lea = <i>U. esopus</i> Green.

Conrad.—On some New Fossil and Recent Shells of the United States: by T. A. CONRAD. (Am. Journ. Sci., O. S., xliii, No. 2, pp. 339-346. Date of title-page, Jan. 1833.)

RECENT SHELLS.

Page.	Name.	Locality.
344	<i>Lucina Floridana</i> Conrad.	Pensacola.
345	<i>Cytherea Sayana</i> Conrad. <i>C. convexa</i> Say (preoc.)	Rhode Isl. & N. Jersey.
345	<i>Melampus borealis</i> Conrad.	Rhode Island.
345	<i>Ungulina transversa</i> Lam. (notes on).	West Indies.
345	<i>Lima glacialis</i> Lam. (notes on).	West Indies.
346	<i>Pholas costata</i> Lin. (notes on).	Mid. & Southern States.
346	<i>Cardium Mortoni</i> Conrad (notes on).	Southern States, Fla.

Ravenel.—Catalogue of Recent Shells in the Cabinet of ED-MUND RAVENEL, M. D. Charleston, S. C., 1834.

[No descriptions are given. The following are the American species :—]

Page.	Name.	Locality.
2	<i>Teredo navalis</i> Lam.	South Carolina.
2	<i>Pholas costata</i> Lam.	South Carolina.
2	<i>oblongata</i> Say.	South Carolina.
2	<i>truncata</i> Say.	South Carolina.
2	<i>cuneiformis</i> Say.	South Carolina.
2	<i>Solen ensis</i> Lam.	Maine, South Carolina.
2	<i>viridis</i> Say.	South Carolina.
2	<i>caribæus</i> Lam.	South Carolina.
2	<i>radiatus</i> .	Massachusetts.
2	<i>Mya arenaria</i> Lam.	Bay of New York.
2	<i>Lutraria canaliculata</i> Say.	South Carolina.
2	<i>lineata</i> Say (rare).	South Carolina.
2	<i>Mactra gigantea</i> Lam. <i>solidissima</i> Chem. <i>similis</i> Say. <i>grandis</i> Solander.	Massachusetts.
2	<i>similis</i> Say. <i>grandis</i> Solander.	South Carolina.
2	<i>lateralis</i> Say.	South Carolina.
2	<i>oblongata</i> Say.	South Carolina.
3	<i>Amphidesma æquale</i> Say.	South Carolina.
3	<i>orbiculata</i> Say.	South Carolina.
3	<i>lepida</i> Say.	South Carolina.
3	<i>Corbula contracta</i> Say.	South Carolina.
3	<i>Pandora trilineata</i> Say.	Nantucket.
3	<i>Pectriola pholadiformis</i> Lam. <i>dactylus</i> Sowb.	South Carolina.
3	<i>flagellata</i> (new) Say.	South Carolina.
3	<i>Sanguinolaria lusoria</i> Conrad. <i>Panumbia lusoria</i> Say.	South Carolina.

Page.	Name.	Locality.
3	<i>Sanguinolaria fusca</i> Conrad. <i>Psammobia fusca</i> Say.	South Carolina.
3	<i>Tellina tenuis</i> ?	South Carolina.
4	<i>interrupta</i> Dillw.	South Carolina.
4	<i>alternata</i> Say.	South Carolina.
4	<i>polita</i> Say.	South Carolina.
4	<i>iris</i> Say.	South Carolina.
4	<i>brevifrons</i> Say (new).	South Carolina.
4	<i>Lucina edentula</i> Lam.	South Carolina.
4	<i>divaricata</i> Lam.	South Carolina.
4	<i>Donax variabilis</i> Say.	South Carolina.
4	<i>Crassina castanea</i> Say.	Maine.
4	<i>Cyclas partumœia</i> Say.	South Carolina.
4	<i>similis</i> Say.	Pennsylvania.
4	<i>Cyrena carolinensis</i> Lam.	South Carolina.
4	<i>Cyprina Islandica</i> Lam.	Massachusetts.
4	<i>Cytherea gigantea</i> Lam.	East Florida.
4	<i>concentrica</i> Lam.	South Carolina.
4	<i>Sayana</i> .	Rhode Island.
4	<i>Venus mercenaria</i> Lam.	South Carolina.
5	<i>paphia</i> .	South Carolina (rare).
5	<i>notata</i> Say.	N. York, South Carolina.
5	<i>Cardium Isocardia</i> Lam.	South Carolina (rare).
5	<i>muricatum</i> Lam. (var.)	South Carolina.
5	<i>maculatum</i> Dillw.	South Carolina.
5	<i>Mortoni</i> Conrad.	Massachusetts.
5	<i>Arca scapha</i> Lam.	South Carolina (rare).
5	<i>incongrua</i> Say.	South Carolina.
5	<i>pezzata</i> Say.	South Carolina.
5	<i>ponderosa</i> Say.	South Carolina.
5	<i>transversa</i> Say.	South Carolina.
5	<i>Campechensis</i> Dillw.	South Carolina.
5	<i>Unio alatus</i> Lam.	Ohio river.
	<i>Symphinota alata</i> Lea.	
5	<i>angustatus</i> Lea.	Cooper river, S. C.
5	<i>asperimus</i> Lea.	Ohio river.
5	<i>cesopus</i> Greene.	Ohio river.
5	<i>cariosus</i> Say.	Ohio river.
5	<i>circulus</i> Lea.	Ohio river.
	<i>U. rotundatus</i> Lam.	
6	<i>complanatus</i> Soland.	South Carolina.
	<i>U. purpureus</i> Say.	
	<i>carenifera</i> Lam. (var.)	
6	<i>congaricus</i> Lea.	Congaree river, S. C.

Page.	Name.	Locality.
6	Unio cornutus Barnes.	Ohio river.
	<i>U. reflexus</i> Raf.	
6	cuneatus Barnes.	Ohio river.
	<i>U. niger</i> Raf.	
6	cylindricus Say.	Ohio river.
	<i>U. naviformis</i> Lam.	
6	decisus Lea	Alabama river.
6	elipsis Lea.	Ohio river.
6	foliatus Hildreth.	Ohio river.
6	formosus Lea.	Ohio and Niagara rivers.
	<i>U. cuneatus</i> Swainson.	
6	gibbosus Barnes.	Ohio river.
6	irroratus Lea.	Ohio river.
6	lacrymosus Lea.	Ohio river.
	<i>U. quadrulus</i> Say.	
6	lens Lea.	Ohio river.
6	metanev Raf.	Ohio.
6	multiplicatus Lea.	Ohio.
6	mytiloides Raf.	Ohio.
6	nasutus Say.	S. Carolina, Massachu'ts.
	<i>U. rostrata</i> Valenc.	
6	ochraceus Say.	Schuylkill river.
6	ovatus Say; Lam. 23	
6	perplexus Lea.	Ohio river.
6	plicatus Lesueur.	Ohio river.
	<i>U. crassidens</i> Lam.	
	<i>peruvianus</i> Lam.	
	<i>rariplacatus</i> Lam.	
6	pustulatus Lea.	Ohio.
6	pustulosus Lea.	Ohio.
6	pyramidatus Lea.	Ohio.
	<i>U. undatus</i> Barnes.	
6	rectus Lam.	Ohio.
6	radiatus Gmel.	Pennsylvania, S. Carol'a.
	<i>U. radiata</i> Lam.	
	<i>virginiana</i> Lam.	
6	securis Lea.	Ohio.
	<i>U. depressa</i> Raf.	
6	siliquoides Barnes.	Ohio.
6	scaleni Raf.	Ohio.
6	subovatus Lea.	Ohio.
6	subtentus Say.	Virginia.
6	sulcatus Lea.	
7	tomentosus (new?)	Cooper river, S. C.
7	tomentosus (new?)	Cooper river, S. C.

Page.	Name.	Locality.
7	<i>Unio torsus</i> Raf.	Ohio.
7	<i>triangularis</i> Barnes.	Ohio.
7	<i>tuberculatus</i> Barnes.	Ohio.
7	<i>verrucosus</i> Barnes.	Ohio.
7	<i>zigzag</i> Lea.	Ohio.
7	<i>Alasmodonta arcuata</i> Sag.	Maine, New Jersey.
7	<i>coarctata</i> (new?)	Riv's in upper part S. C.
7	<i>complanata</i> Say.	Ohio.
	<i>Symphinota complanata</i> Lea.	
7	<i>marginata</i> .	Mass., Niagara river.
7	<i>undulata</i> .	New Jersey.
7	<i>rugosa</i> Barnes.	Tennessee.
7	<i>Anodonta cataracta</i> Lam.	Maine, South Carolina.
7	<i>Chama arcinella</i> Lam.	South Carolina.
7	<i>Modiola papuana</i> Lam.	Maine.
7	<i>tulipa</i> Lam.	East Florida.
7	<i>lithophaga</i> Lam. (rare.)	East Florida.
7	<i>Mytilus borealis</i> Lam.	New York.
7	<i>demissus</i> Say.	South Carolina.
7	<i>leucopheus</i> Conrad.	South Carolina.
7	<i>Pinna seminuda</i> ? Lam.	South Carolina.
7	<i>muricata</i> ? Lam.	South Carolina.
	<i>P. rigida</i> Wood.	
8	<i>Avicula macroptera</i> ? Lam.	South Carolina.
8	<i>Lima squamosa</i> Lam.	East Florida.
8	<i>glacialis</i> Lam.	East Florida.
8	<i>Pecten Magellanicus</i> Lam.	Maine.
8	<i>Islandicus</i> Lam.	Newfoundland.
	<i>P. Peckii</i> Conrad.	
8	<i>concentricus</i> Say.	Massachusetts.
8	<i>dislocatus</i> Say.	East Florida.
8	<i>Plicatula cristata</i> Lam.	South Carolina.
8	<i>Ostrea Virginica</i> Lam.	South Carolina.
8	<i>equestris</i> Say (new).	South Carolina.
8	<i>fundata</i> Say (new).	South Carolina.
8	<i>Anomia ephippium</i> Lam.	South Carolina.
8	<i>Chiton apiculatus</i> Say (new).	South Carolina.
9	<i>Fissurella alternata</i> Say.	South Carolina.
9	<i>Crepidula fornicata</i> Lam.	South Carolina.
9	<i>aculeata</i> Lam.	South Carolina.
9	<i>convexa</i> Say.	South Carolina.
9	<i>plana</i> Say.	South Carolina.
9	<i>Bulla solitaria</i> Say.	South Carolina.
9	<i>Helix aspersa</i> Lam.	South Carolina.
9	<i>albolabris</i> Say.	S. Carolina, Penn'a.

Page.	Name.	Locality.
9	Helix thyroideus Say.	South Carolina.
9	<i>liger</i> .	Pennsylvania.
9	<i>inornatus</i> Say.	South Carolina.
9	<i>perspectiva</i> .	Pennsylvania.
9	<i>tridentata</i> Say.	Pennsylvania.
	<i>H. trid. var. epliabus</i> Say.	South Carolina.
9	<i>avara</i> Say.	South Carolina.
9	<i>appressa</i> Say.	Pennsylvania.
9	<i>hirsuta</i> .	Pennsylvania.
9	<i>suppressa</i> Say.	South Carolina.
9	<i>gularis</i> .	Pennsylvania.
9	<i>glaphyra</i> .	Pennsylvania.
9	<i>fuliginosus</i> .	Pennsylvania.
10	<i>profunda</i> Say.	Pennsylvania.
10	<i>concava</i> .	Pennsylvania.
10	<i>Pennsylvanica</i> .	Pennsylvania.
10	<i>solitaria</i> .	Ohio.
10	<i>alternata</i> Say.	North Carolina.
10	Bulimus undatus Lam. (var.)	East Florida.
10	<i>mutilatus</i> Say.	South Carolina.
10	Achatina glans Lam.	South Carolina.
10	Succinea ovalis Say.	Pennsylvania.
10	<i>obliqua</i> .	Pennsylvania.
11	Planorbis trivolv Say.	Delaware.
11	<i>lentus</i> Say.	South Carolina.
11	<i>complanatus</i> .	Western lakes.
11	Physa heterostropha .	Lehigh river, Penn's
11	<i>gyrina</i> Say.	South Carolina.
11	Lymnæa catascopium .	Delaware.
11	<i>merostoma</i> .	Near Philadelphia.
11	<i>columella</i> .	Pennsylvania.
11	<i>emarginata</i> .	Maine.
11	Melania subularis Lea.	Niagara river.
11	<i>virginea</i> .	Schuylkill.
11	<i>dissimilis</i> .	Susquehanna.
11	<i>canaliculata</i> Say.	Ohio.
11	<i>carinata</i> (new?)	Yadkin river, N. C.
11	<i>costata</i> (new?)	Dan river, Virginia.
11	<i>dislocata</i> (new?)	Dan river, Virginia.
11	(<i>Anculosa</i>) <i>procerosa</i> Say.	Ohio.
11	(<i>A.</i>) <i>subcarinata</i> .	Susquehanna.
11	<i>conica</i> Say.	Ohio.
11	Jo fusiformis Lea.	Virginia.
	<i>Fusus fluviatilis</i> .	
11	Pyrena scalariformis Say.	East Florida.

Page.	Name.	Locality.
11	Valvata tricarinata.	New York canal.
11	Paludina vivipara?	St. John's riv. E. Florida.
12	<i>decisa Say.</i>	Maine, South Carolina.
12	<i>subcarinata.</i>	Schuylkill.
12	<i>ponderosa Say.</i>	Ohio.
12	<i>maxima new?</i>	French Broad river.
12	<i>intertexta Say.</i>	So. Carolina (very rare).
12	<i>rudis (new?)</i>	Dan river, Virginia.
12	<i>nitida (new?)</i>	Dan river, Virginia.
12	<i>altalis (new?)</i>	Santee canal.
12	Nerita peloronta Lam.	East Florida.
12	Natica heros Say.	Massachusetts.
12	<i>duplicata Say.</i>	South Carolina.
12	Sigaretus perspectivus Say.	South Carolina.
13	Tornatella bidentata Say.	South Carolina.
13	Scalaria clathrus Say (var. b).	South Carolina.
	<i>angulata Say (var.)</i>	
13	<i>lineata Say.</i>	South Carolina.
13	<i>multistriata Say.</i>	South Carolina.
13	Turbo littoreus Lam.	United States.
14	Phasianella sulcata Lam.	South Carolina.
14	<i>angulifera Lam.</i>	East Florida.
14	Cerithium dislocatum Say.	South Carolina.
14	<i>concavum? Say.</i>	South Carolina.
14	<i>spiratum (new?)</i>	South Carolina.
14	Cancellaria reticulata Lam.	South Carolina.
14	Fasciolaria tulipa Lam.	South Carolina.
14	<i>distans Lam.</i>	South Carolina.
14	<i>trapezium Lam.</i>	South Carolina.
14	Fusus Islandicus Lam.	Maine.
14	<i>corona Lam.</i>	East Florida.
14	<i>cinereus Say.</i>	South Carolina.
14	<i>decemcostatus.</i>	Maine.
14	Pyrula canaliculata Lam.	South Carolina.
14	<i>carica Lam.</i>	South Carolina.
14	<i>perversa.</i>	South Carolina.
15	<i>reticulata? Lam.</i>	East Florida.
15	<i>(Fulgur pyruloides) Say.</i>	South Carolina.
15	Ranella caudata Say.	South Carolina.
15	Murex asperrimus? Lam.	South Carolina.
15	Strombus accipitrinus Lam. (var?)	East Florida.
15	<i>pyrulatus Lam.</i>	Key West.
16	Purpura lapillus Lam.	Maine.
16	Dolium galea Lam. (var.)	South Carolina.
17	Buccinum undatum (var.)	Maine.

Page.	Name.	Locality.
17	<i>Nassa trivittata Say.</i>	South Carolina.
17	<i>obsoleta Say.</i>	South Carolina.
17	<i>vibex Say.</i>	South Carolina.
17	<i>Colombella avara Say.</i>	South Carolina.
18	<i>Volvaria canaliculata Say.</i>	South Carolina.
18	<i>Ovula gibbosa Lam.</i>	East Florida.
18	<i>acicularis Lam.</i>	South Carolina.
18	<i>Cypræa cervina Lam.</i>	East Florida.
19	<i>Oliva sayana.</i>	South Carolina.
	<i>O. litterata Say.</i>	
19	<i>Zonalis Wood.</i>	Mexico.
19	<i>tenebrosa Wood.</i>	Mexico.
19	<i>mutica Say.</i>	South Carolina, Cuba.
19	<i>Conus mus Lam.</i>	East Florida.
19	<i>Spirula Peronii Lam.</i>	South Carolina.
20	<i>Argonauta argo Lam.</i>	East Florida.

Kirtland.—Observations on the Sexual Characters of the Animals belonging to Lamark's Family of Naiades: by JARED P. KIRTLAND, M. D. (In American Journal of Science, vol. xxvi, No. 1, O. S., pp. 117-120; with outline figures. Date of title-page, July, 1834.)

Page.

- 119 *Unio formus Lea*, is male of *Unio triangularis Barnes*.
ridibundus Say, is female of *U. sulcatus Lea*.

Outline figures are given of male and female of

<i>Unio ventricosus.</i>	<i>Unio ochraceus.</i>
<i>nasutus.</i>	<i>aliquoides.</i>
<i>rectus.</i>	

Totten.—Description of some new Shells belonging to the coast of New England: by JOS. G. TOTTEN. (In American Journal of Science, vol. xxvi, No. 2, O. S.; one plate. Date of title-page, July, 1834.)

Page.	Fig.	Name.	Locality.
366	1, h, i	<i>Solemya borealis Totten.</i>	Rhode Island.
366	1, k	<i>velum Say</i>	
367	2	<i>Venus gemma Totten.</i>	Provincetown, Newport.
367	3	<i>Modiola glandula Totten.</i>	Provincetown.
368	4	<i>Actæon trifidus Totten.</i>	Rhode Island.

Page.	Fig.		
368	5	Turbo inflatus <i>Totten.</i>	Plymouth.
369	6	minutus <i>Totten.</i>	Mass., Rhode Island.
369	7	Pasithea nigra <i>Totten.</i>	Rhode Island.

Rogers.—Analysis of Shells (recent Oyster): by WILLIAM B. ROGERS, Prof. of Chem. and Nat. Phil. in William and Mary College, Va. [From same as last, p. 361.]

Conrad.—Description of some New Species of Fresh-water Shells from Alabama, Tennessee, &c.: by TIMOTHY A. CONRAD, Member of the Acad. Nat. Sci. of Philadelphia. (Am. Journ. Sci. and Art. vol. xxv, No. 2, O. S. Date of title, Jan. 1834.)

Page.	Pl.	Fig.	Name.	Locality.
338	i	2	Unio cœlatus <i>Conrad.</i>	Elk & Flint rivs., Tenn.
338	i	3	perovatus <i>Conrad.</i>	Prairie creek, Marengo Co., Ala.
339	i	4	lienosus <i>Conrad.</i>	South Alabama.
339			rubiginosus <i>Lea</i> (no des.)	South Alabama.
339	i	6	stramineus <i>Conrad.</i>	South Alabama.
340	i	8	arcus <i>Conrad.</i>	Alabama river.
340	i	9	arctatus <i>Conrad.</i>	Bl. Warrior & Ala. rivs.
341	i	10	Alasmodonta radiata <i>Conrad.</i>	South Alabama.
341	i	12	Anodonta subvexa <i>Conrad.</i>	Black Warrior river.
341	i	11	declivis <i>Conrad.</i>	Flint river, Morgan Co. Ala.
342	i	5	Cycias staminea <i>Conrad.</i>	South Alabama.
342	i	13	Melania olivula <i>Conrad.</i>	Alabama river.
342	i	14	prasinata <i>Conrad.</i>	Alabama river.
342	i	15	Anculosa picta <i>Conrad.</i>	Alabama river.
343	i	3	Unio subtentus <i>Say</i> var.	Tennessee and Elk rivs.
343	i	7	mytilloides <i>Ruf.</i>	Alabama river.
343			Planorbis antrosus <i>Conrad.</i>	Randon's creek, Claiborne, Ala.
343			Melania congesta <i>Conrad.</i>	Randon's creek, do.
343			Physa pomilia <i>Conrad.</i>	Randon's creek, do.

Conrad.—New Fresh-water Shells of the United States, with colored illustrations, and a Monograph of the genus *Anculotus* of Say; also, a Synopsis of the American *Naiades*: by T. A. CONRAD, Memb. Acad. Nat. Sci. Philadelphia. Philadelphia, 1834.

In the Introduction are remarks on the following species, their synonymy, geographical distribution, &c. :—

Page.		Page.	
7	<i>Unio cardium</i> .	12	<i>Anculotus tæniatus</i> .
7	<i>inflatus</i> .	14	<i>Unio decius</i> .
7	<i>alatus</i> .	14	<i>trapezoides</i> .
7	<i>cariosus</i> .	14	<i>Alabamensis</i> .
7	<i>Alasmodonta marginata</i> .	14	<i>arctatus</i> .
8	<i>Unio purpureus</i> .	15	<i>Rangia cyrenoides</i> .
8	<i>declivis</i> .	17	<i>Unio rectus</i> .
8	<i>parvus</i> .	17	<i>acutissimus</i> .
9	<i>ater</i> .	17	<i>teres</i> .
9	<i>torsus</i> .	17	<i>plicatus</i> .
9	<i>nasutus</i> .	17	<i>reflexus</i> .
10	<i>reflexus</i> .	17	<i>verrucosus</i> .
10	<i>cornutus</i> .	17	<i>undatus</i> .
10	<i>verrucosus</i> .	17	<i>interruptus</i> .
10	<i>tuberculatus</i> .	17	<i>stapes</i> .
10	<i>declivis</i> .	17	<i>arcus</i> .
10	<i>flavus</i> .	17	<i>acutissimus</i> .
10	<i>rubiginosus</i> .	17	<i>decius</i> .
10	<i>stramineus</i> .	17	<i>scalenius</i> .
10	<i>perovatus</i> .	17	<i>Alabamensis</i> .
11	<i>flavus</i> .	18	<i>asper</i> .
11	<i>teres</i> .	18	<i>apiculatus</i> .
11	<i>cariosus</i> .	18	<i>arctatus</i> .
12	<i>anodontoides</i> .	18	<i>glans</i> .
12	<i>fragilis</i> .	18	<i>tæniatus</i> .
12	<i>gracilis</i> .	18	<i>maculatus</i> .
12	<i>Fusus fluviatilis</i> .	18	<i>subtentus</i> .
12	<i>Io fusiformis</i> .	18	<i>cœlatus</i> .
12	<i>Paludina ponderosa</i> .	18	<i>trabalis</i> .
12	<i>Unio niger</i> .	18	<i>alatus</i> .
12	<i>reflexus</i> .	18	<i>Anodonta declivis</i> .
12	<i>triangularis</i> .	22	<i>Valvata arenifera</i> .
12	<i>Anculotus pictus</i> .		

Page.	Pl.	Fig.	Name.	Locality
23	i		<i>Unio Poulsoni</i> (Carrad.)	Black Warrior riv., Ala.
26	iv	2	<i>tæniatus</i> (Carrad.)	Flint river, Morgan Co.
27	iii	5	<i>trabalis</i> (Carrad.)	Ala.
28	iii	7	<i>maculatus</i> (Carrad.)	Black Warrior riv., Ala.
28	iii	3	<i>cœlatus</i> (Carrad.)	Elk & Flint riv., Ala.
29	iii	4	<i>cœlatus</i> (Carrad.)	Tomb., Elk & Flint riv.
30	iv	4	<i>maculatus</i> (Carrad.)	Tomb., Elk & Flint riv.
31	iv	3	<i>vibex</i> (Carrad.)	Black Warrior riv., Ala.

Page.	Pl.	Fig.	Name.	Locality.
32	iv	1	Greenii Conrad.	Black Warrior riv., Ala.
33	v	1	penitus Conrad.	Alabama river.
34	v	2	Masoni Conrad.	Savannah river.
35	v	3	delumbis Conrad.	Cooper river, S. C.
36	v	4	arotatus Conrad.	Alabama & Black War- rior river.
37	vi	1	pectorosus Conrad.	Elk river.
38	vi	2	rubellus Conrad.	Black Warrior river.
39	vi	3	furvus Conrad.	Black Warrior river.
39	vi	4	Ravenelli Conrad.	Cooper river & Wateree Canal, S. C.
41	vi	5	icterinus Conrad.	Savannah river.
42	vii	1	tenebrosus Conrad.	Rappahannock, Va., & South Carolina.
43	ii	1	altilis Conrad.	Alabama.
43	ii	2	perovalis Conrad.	Alabama river.
44	iii	1	prasinus Conrad.	Fox River.
45	iii	2	infucatus Conrad.	Flint River.
46	iii	6	oviformis Conrad.	Tennessee.
47	ii	3	perovatus Conrad.	Greene Co., Ala.
47	vii	2	Anodonta teres Conrad.	Santee Canal, S. C.
48	viii	3	Paludina genicula Conrad.	Flint river, Ga.
48	viii	4	magnifica Conrad.	Ala. river (Claiborne).
49	iv	6	Melania excurata Conrad.	Tenn. riv. at Florence.
50	viii	1	Hydeii Conrad.	Black Warrior riv., Ala.
51	viii	2	annulifera Conrad.	Black Warrior riv., Ala.
51	iv	5	salebrosa Conrad.	Tenn. & Holston rivers.
52	viii	5	pyrenella Conrad.	North Alabama.
52	viii	6	bitæniata Conrad.	Black Warrior river.
53	viii	7	comma Conrad.	Black Warrior river.
54	viii	8	lima Conrad.	Elk river, Ala.
54	iv	7	alveare Conrad.	Elk river, Ala.
55	viii	9	nassula Conrad.	Tuscumbia, Ala.
55	viii	10	cylindracea Conrad.	Tombeckbee river.
56	viii	11	trochiformis Conrad.	North Alabama.
57	viii	12	vestita Conrad.	Greene Co., Ala.
57			Ancylus filusus Conrad.	Black Warrior river.

The following are mentioned by name only :—

Page.	Name.	Locality.
31	Unio undatus Barnes.	Alabama.
39	congaræus Lea.	Savannah river.
40	nasutus .	Santee canal and Augusta.
40	angustatus Lea.	Santee canal and Augusta.
40	ochraceus Say?	Santee canal & Rappahannock.

In the Introduction are remarks on the following species, their synonymy, geographical distribution, &c. :—

Page.		Page.	
7	<i>Unio cardium</i> .	12	<i>Anculotus tæniatus</i> .
7	<i>inflatus</i> .	14	<i>Unio deciusus</i> .
7	<i>alatus</i> .	14	<i>trapezoides</i> .
7	<i>cariosus</i> .	14	<i>Alabamensis</i> .
7	<i>Alasmodonta marginata</i> .	14	<i>arctatus</i> .
8	<i>Unio purpureus</i> .	15	<i>Rangia cyrenoides</i> .
8	<i>declivis</i> .	17	<i>Unio rectus</i> .
8	<i>parvus</i> .	17	<i>acutissimus</i> .
9	<i>ater</i> .	17	<i>teres</i> .
9	<i>torsus</i> .	17	<i>plicatus</i> .
9	<i>nasutus</i> .	17	<i>reflexus</i> .
10	<i>reflexus</i> .	17	<i>verrucosus</i> .
10	<i>cornutus</i> .	17	<i>undatus</i> .
10	<i>verrucosus</i> .	17	<i>interruptus</i> .
10	<i>tuberculatus</i> .	17	<i>stapes</i> .
10	<i>declivis</i> .	17	<i>arcus</i> .
10	<i>flavus</i> .	17	<i>acutissimus</i> .
10	<i>rubiginosus</i> .	17	<i>deciusus</i> .
10	<i>stramineus</i> .	17	<i>scalenius</i> .
10	<i>perovatus</i> .	17	<i>Alabamensis</i> .
11	<i>flavus</i> .	18	<i>asper</i> .
11	<i>teres</i> .	18	<i>apiculatus</i> .
11	<i>cariosus</i> .	18	<i>arctatus</i> .
12	<i>anodontoides</i> .	18	<i>glans</i> .
12	<i>fragilis</i> .	18	<i>tæniatus</i> .
12	<i>gracilis</i> .	18	<i>maculatus</i> .
12	<i>Fusus fluvialis</i> .	18	<i>subtentus</i> .
12	<i>Io fusiformis</i> .	18	<i>cœlatus</i> .
12	<i>Paludina ponderosa</i> .	18	<i>trabalis</i> .
12	<i>Unio niger</i> .	18	<i>alatus</i> .
12	<i>reflexus</i> .	18	<i>Anodonta declivis</i> .
12	<i>triangularis</i> .	22	<i>Valvata arenifera</i> .
12	<i>Anculotus pictus</i> .		

Page.	Pl.	Fig.	Name.	Locality.
25	i		<i>Unio Poulsoni</i> Conrad.	Black Warrior riv., Ala.
26	iv	2	<i>tæniatus</i> Conrad.	Flint river, Morgan Co.
27	iii	5	<i>trabalis</i> Conrad.	[Ala.
28	iii	7	<i>nebulosus</i> Conrad.	Black Warrior riv., Ala.
28	iii	3	<i>cor</i> Conrad.	Elk & Flint rivs., Ala.
29	iii	4	<i>cœlatus</i> Conrad.	Tenn., Elk & Flint rivs.
30	iv	4	<i>maculatus</i> Conrad.	Tenn., Elk & Flint rivs.
31	iv	3	<i>vibex</i> Conrad.	Black Warrior riv., Ala.

Page.		Page.	
68	Unio declivis Say.	70	Unio lapillus Say.
68	decisus Lea.		<i>U. subalis</i> Lea.
68	dilatatus Raf.	70	leptodon Raf.
	<i>U. cuprea</i> Raf. (young).		<i>Symphy. tenuissima</i> Lea.
	<i>atroviolacea</i> Raf.		<i>An. purpurascens</i> Swains.
	<i>gibbosus</i> Barnes.	70	lævigatus Raf.
69	delumbis Conr.		<i>U. lens</i> Lea.
69	ebenus Lea.	70	lanceolatus Lea.
69	fragilis Raf.	70	lævissimus .
	<i>U. gracilis</i> Barnes.		<i>Anodonta Ohiensis</i> Raf.
	<i>Symphynota gracilis</i> Lea.		<i>Symphy. lævissima</i> Lea.
	<i>S. fragilis</i> Swainson.	70	latus .
69	flavus Raf.		<i>Anodonta lata</i> Raf.
	<i>U. rubiginosus</i> Lea.		<i>U. dehiscens</i> Say.
69	fasciolaris Raf.		<i>oriens</i> Lea.
	<i>U. sinuatus</i> Raf. (very old)	70	monodonta Say.
	<i>phascolus</i> Hildreth.		<i>U. soleniformis</i> Lea.
	<i>mucronatus</i> Barnes	70	multiradiatus Lea.
	<i>planulatus</i> Lea.	70	metanever Raf.
	<i>bicolor?</i> Raf.		<i>U. nodosus</i> Barnes.
69	flexuosus Raf.	70	metallicus Say.
69	foliatus Hildreth.		<i>U. cuprinus</i> Lea.
69	fasciatus Raf.	70	Masoni Conr.
	<i>U. carinatus</i> Barnes.	70	maculatus Conr.
69	furvus Conr.	70	nervosa Raf.
69	glans Lea.		<i>U. zig-zag?</i> Lea.
69	glebulus Say.	70	nasutus Say.
69	Greenii Conr.		<i>U. rostratus</i> Val.
69	heterodon Lea.	70	niger Raf.
69	heros Say.		<i>U. cuneatus</i> Barnes.
	<i>U. multiplicatus</i> Lea.	70	nodulatus Raf.
69	interruptus Raf.		<i>U. pustulatus</i> Lea.
	<i>U. brevidens</i> Lea.		<i>verrucosus</i> Val.
69	loterinus Conr.	70	nexus Say.
69	iris Lea.		<i>U. arciformis</i> Lea.
69	inflatus Barnes.	70	nebulosus Conr.
	<i>U. siliquoides</i> Barnes.	70	ovatus Say.
	<i>vittatus?</i> Raf.		<i>U. orata</i> Raf.
70	infucatus Conr.	70	obesus Lea.
70	lenosus Conr.	70	olivarius Raf.
70	lineolatus Raf.		<i>U. ellipsis</i> Lea.
	<i>U. depressa</i> Raf.	70	ochraceus Say.
	<i>ellipsaria</i> Raf.	70	obliquatus Raf.
	<i>securis</i> Lea.		<i>U. sulcatus</i> Lea.

Page.

- 70 **Unio oviformis** Conr.
 70 **penitus** Conr.
 70 **parvus** Barnes.
 71 **plicatus** Say.
 U. peruvianus Lam.
 71 **Poulsoni** Conr.
 71 **pileus** Lea.
 71 **perovallis** Conr.
 71 **purpureus** Say.
 U. purpurascens Lam.
 coarctata Lam.
 carinifera Lam.
 complanatus Lea.
 aurata Raf.
 71 **pectorosus** Conr.
 71 **planus** Barnes.
 71 **personatus** Say.
 U. subrotundus Say.
 71 **prasinus** Conr.
 71 **quadrulus** Raf.
 U. rugosus Barnes.
 lachrymosus Lea.
 asperrimus Lea.
 71 **rectus** Lam.
 U. latissima Raf.
 prælongus Barnes.
 71 **rubellus** Conr.
 71 **Ravenelli** Conr.
 71 **reflexus** Raf.
 U. cornutus Barnes.
 71 **radiatus** Lam.
 Mya radiata Gmel.
 U. Virginiana Lam.
 71 **ridibundus** Say.
 71 **retusus** Raf.
 71 **stapes** Lea.
 71 **stramineus** Conr.
 71 **subtentus** Say.
 71 **stegarius** Raf.
 U. irroratus Lea.
 71 **subrotundus** Raf.
 U. pusilla Raf.
 striata Raf.
 circulus Lea.
 orbiculatus Hildreth.

Page.

- 71 **Unio scalenius** Raf.
 U. cuneata Raf.
 patulus Lea.
 72 **subrostratus** Say.
 72 **tæniatus** Conr.
 72 **torsus** Raf.
 72 **trapezoides** Lea.
 U. interruptus Say.
 72 **teres** Raf.
 U. anodontoides Lea.
 72 **triqueter** Raf.
 U. triangularis Barnes.
 formosus Lea.
 cuneatus Swainson.
 72 **truncatus** Raf.
 U. donaciformis Lea.
 elegans Lea.
 72 **tuberculatus** Raf.
 U. verrucosus Barnes.
 tuberculatus Val.
 72 **triangularis** Raf.
 U. lateralis Raf.
 sintoria Raf.
 pachostea Raf.
 mytiloides Raf.
 rubra Raf.
 pyramidatus Lea.
 72 **torulosus** Raf.
 U. gibbosa Raf.
 perplexus Lea.
 72 **tenebrosus** Conr.
 72 **trabalis** Conr.
 72 **undatus** Barnes.
 U. trigonus Lea.
 72 **verrucosus** Raf.
 U. tuberculatus Barnes.
 72 **vibex** Conr.
 72 **velum** Say.
 72 **viridis** Raf.
 72 **Alasmodonta costata** Raf.
 Alas. rugosa Barnes.
 72 **complanata** Barnes.
 Symphy. complanata Lea.
 72 **confragosa** Say.

Page.		Page.	
72	Alasmodonta edentula Say.	73	Anodonta cataracta Say.
72	<i>marginata</i> Say.		<i>An. marginata</i> Say.
	<i>Alas. scriptum</i> Raf.	73	declivis Conr.
72	margaritifera.	73	grandis Say.
	<i>Unio margaritifera</i> Lam.	73	implicata Say.
	<i>Alas. arcuata</i> Barnes.	73	imbecillis Say.
73	radiata Conr.	73	inflata Say.
73	sculptilis Say.	73	lugubris Say.
73	truncata Say.	73	subvexa Conr.
	<i>Unio calceolus</i> Lea.	73	suborbiculata Say.
73	undulata Say.	73	undulata Say.
			<i>An. rugosa</i> Swainson.

73 **Unio declivis** Say, quoted from Florida, is said to be another species.

(Appendix to same.)

Page.	Pl.	Fig.	Name.	Locality
4	ix	1	Unio viridis Raf. [subviridis Conr.]	Penn., Kentucky river.
5	ix	2	complanatus var. subinflatus.	South Carolina.
5	ix	3	Melania formosa Conrad.	North Alabama.
6	ix	4	Melania bella Conrad.	North Alabama.
6	ix	5	dilatata Conrad.	Monroe Co., Va.
7	ix	6	semicostata Conrad.	North Alabama.
7	ix	7	Rogersii Conrad.	
8	ix	8	Planorbis engonatus Conrad.	Albany.

Additions to Synopsis.

Page.		Page.	
1	Anodonta cataracta Say.	1	Anodonta marginata Say.
	<i>Mytilus fluviatilis</i> Gmel.		<i>Anod. pennsylvanica</i> Lam.
	<i>Anod. fluviatilis</i> Bosc.	1	radiata Conr.
	<i>Mytilus illitus</i> Soland.		<i>Alas. radiata</i> Conr.
1	edentula Ferrussac.	2	Alasmodonta calceolus.
	<i>Alas. edentula</i> Say.		<i>Unio calceolus</i> Lea.
	<i>Anod. Ferrussaciana</i> Lea.		<i>Alas. marginata</i> Say.
1	grandis Say.	2	marginata Say.
	<i>Anod. declivis</i> Conr.		
	<i>plana</i> Lea.	2	Unio acutissimus Lea.
1	imbecillis Say.		<i>U. Conradicus</i> Lea.
	<i>Symphynota incerta</i> Lea.	2	apiculatus Say.
	<i>Anod. incerta</i> Fer.		<i>U. asper</i> Lea.
1	lata Raf., Fer.	2	Carolinianus Bosc., Fer.
	<i>Unio dehiscens</i> Say.		<i>U. obesus</i> Lea.
	<i>oriens</i> Lea.	2	capax Green.
	<i>latus</i> Conr.		<i>Symphynota globosa</i> Lea.
	<i>Odatelia radiata</i> Raf.		

Page.		Page.	
2	Unio clava Lam., Fer. <i>U. scalenius</i> Raf. <i>modioliformis</i> Say.	2	Unio pachostea Raf., Fer. <i>U. Cooperianus</i> Lea.
2	complanatus Sol., Lea, <i>U. purpureus</i> Say. [Fer.	3	pectorosus Conr. <i>U. perdix</i> Lea.
2	cordatus Raf. <i>U. undatus</i> Barnes. <i>trigonus</i> Lea.	3	personatus Say. <i>U. capillaris</i> Lea.
2	decisus Lea. var. <i>Taitianus</i> Lea.	3	purpuratus Lam. <i>U. ventricosus</i> Soland. <i>ater</i> Lea. <i>lugubris</i> Say.
2	declivis Say. <i>U. geometricus</i> Lea.	3	trabalis Conr. <i>U. Troostensis</i> Lea.
2	delumbis Conr. <i>U. modioliformis</i> Lea.	3	ruber Raf. <i>U. pyramidatus</i> Lea.
2	donaciformis Lea.	3	Ravenelli Conr. <i>U. confertus</i> Lea. <i>fulvus</i> ? Lea (young).
2	ligamentina Lam., Fer. <i>U. ellipsaria</i> Raf.	3	retusus Lam., Lea. <i>U. torus</i> Raf.
2	lienosus Conr. <i>U. Nashvillianus</i> Lea.	3	suborbiculatus Lam., Lea. <i>U. rotundatus</i> Lam. <i>glebulus</i> Say. <i>subglobosus</i> Lea.
2	metanever Raf. <i>U. retusus</i> Raf. (very old).	3	subrostratus Say. <i>U. iris</i> Lea.
2	nodulatus Raf. <i>U. pustulatus</i> Lea. <i>prasinus</i> Conr. <i>Schoolcraftensis</i> Lea.	3	tetralasmus Say.
2	obliquus Lam. <i>U. obovalis</i> Raf. <i>ebenus</i> Lea.	3	truncatus Raf. <i>U. elegans</i> Lea

Conrad.—Monography of the Family Unionidæ, or Naiades of Lamarek, of North America: by T. A. CONRAD, Memb. Phila. Acad. Nat. Sci., Hon. Memb. Geol. Soc. Pa. Philadelphia.

No. I.—December, 1835.

Page.	Pl.	Fig.	Name.	Locality.
3	i		Unio fasciatus Raf. <i>U. carinatus</i> Barnes.	Scioto river.
4	ii		ovatus Say, var. ornatus .	South Alabama.
5	iii	1	clava Lam. <i>U. scalenius</i> Raf. <i>modioliformis</i> Say.	Western rivers.
6	iii	2	decisus Lea. <i>U. Taitianus</i> Lea.	Alabama.

Page.	Pl.	Fig.	Name.	Locality.
7	iv	1	Unio reflexus Raf. <i>U. cornutus</i> Barnes.	Alabama, Indiana.
8	iv	2	flexuosus Raf. <i>U. foliatus</i> Hildr.	Western rivers.
9	v	1	Phillipsii Conr.	Wabash river.
10	v	2	metanevrus Raf. <i>U. nodosus</i> Barnes.	West. & South. rivs.
11	vi	1	Mortoni Conr.	Bayou Teche, La.
12	vi	2	fragosus Conr.	Scioto river.

No. II.—January, 1836.

17	vii		Unio costatus Raf. <i>U. undulatus</i> Barnes.	Ala., & Tenn. rivers.
19	viii		retusus Lam. <i>U. torsa</i> Raf.	Western rivers.
20	ix	1	parvus Barnes.	West, N. W. Ter., La.
21	ix	2	glans Lea.	Ohio, Tenn., Ala.
22	x	1	siliquoides Barnes. <i>U. inflatus</i> Barnes.	Western rivers.
24	x	2	radiatus Lam. <i>U. Virginiana</i> Lam. <i>U. oblongata</i> Wood. <i>Mya radiata</i> Spengl. Gmel.	Va., Wisc., N. Y.

No. III.—February, 1836.

25	xi	1	Unio pectorosus Conr. <i>U. perdix</i> Lea.	Tennessee, Alabama.
26	xi	2	fasciolus Raf. <i>U. multiradiatus</i> Lea.	
27	xii	1	congaræus Lea.	S. Carolina, Georgia.
28	xii	2	Masoni Conr.	Savannah, Georgia.
29	xiii	1	coccineus Hildreth.	Mahoning riv. Pa.
30	xiii	2	catillus Conr.	Western rivers.
31	xiv	1	productus Conr.	Savannah river.
32	xiv	2	lanceolatus Lea.	N. Carolina, Virginia.

No. IV.—March, 1836.

33	xv		Unio rectus Lam. <i>U. latissima</i> Raf. <i>U. prælongus</i> Barn.	Western rivs., Ala.
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Page.	Pl.	Fig.	Name.	Locality.
34	xvi		Unio crassus Say.	Ohio, Indiana, Ill.
			<i>U. crassidens</i> var. c. Lam.	
			<i>ligamentina</i> Lam.	
			<i>ellipticus</i> Barnes.	
			<i>suborbiculatus</i> Hild.	
			<i>abruptus</i> Say.	
			<i>cyclops</i> Raf.	
35	xvii	1	viridis Raf.	Schuylkill riv., Pa., Ky.
37	xvii	2	ochraceus Say.	Pennsylvania, Va.
			<i>Symphonata ochracea</i> Lea.	
			var. a. <i>Mytilus fluviatilis</i> Gmel.	
38	xviii	1 ¹	nasutus Say.	Fla. to Eastern Sts.
			<i>U. rostratus</i> Val.	
39	xviii	2	icterinus Conr.	Savannah river.
40	xix		cariosus Say.	Virginia, Middle Sts.
			<i>U. luteola</i> Lam.	
			<i>ovatus</i> Val.	
No. V.—June, 1836.				
41	xx		Unio mytiloides Raf.	West. waters, Ala.
			<i>U. rubra</i> Raf.	
			<i>pyramidatus</i> Lea.	
			<i>cardiacea</i> Guérin.	
42	xxi		dilatatus Raf.	Ohio, Miss., Mo., and
			<i>U. nasutus</i> Lam.	Tenn. rivers, Va.,
			<i>gibbosus</i> Barnes.	N. C.
43	xxii		tuberculatus Raf.	Wisc., L. Erie, Tenn.
			<i>U. verrucosus</i> Barnes.	river.
			<i>tuberculosa</i> Val.	
45	xxiii	1	declivis Say = U. Sayanus	
			Ward of errata. (Wrapper	
			of No. xi. p. 4.)	Ala., La., Ohio.
			<i>U. geometricus</i> Lea.	
46	xxiii	2	Blandingianus Lea.	East Florida.
47	xxiv		personatus Say.	Wabash and Cumber-
			<i>U. capillaris</i> Lea.	land rivers.
48	xxv		cordatus Raf.	Ohio & Tenn. rivers.
			Anodonta virgata Conr. (p. 4 of	
			wrapper.)	Clarke Co., Ohio.
No. VI.—July, 1836				
49	xxvi		Unio niger Raf.	Alabama, Michigan.
			<i>U. crassidens</i> var. b. Lam.	
			<i>cuneatus</i> Barnes.	

¹ Plate xviii, Fig. 1, represents *U. fisherianus* Lea, v. wrapper of No. XI, p. 4.

Page.	Pl.	Fig.	Name.	Locality.
50	xxvii	1	Unio gibbosus Raf. <i>U. torulosus Raf.</i> <i>perplexus Lea.</i>	Wabash, Scioto, and Tenn. rivers.
51	xxvii	2	gibbosus var. perobliquus.	Wab'sh, Ind., Detroit.
52	xxviii		teres Raf. <i>U. anodontoides Lea.</i>	West. riva., La., Ala.
53	xxix	1	Sageri Conr.	Detroit river.
54	xxix	2	lapillus Say. <i>U. fabalis Lea.</i>	Michigan, Ohio river.
55	xxx		fragilis Raf. <i>U. gracilis Barnes.</i> <i>Symphynota gracilis Lea.</i>	Fox and Detroit, Ala.
56	xxxi		alatus Say. <i>Metaptera megaptera Raf.</i> <i>Symp. alata Lea.</i>	Wisc., Mich., Ala., N. W. Terr., Fox riv.

No. VII.—December, 1836.

57	xxxii		Unio inflatus Lea. <i>Symphynota inflata Lea.</i> <i>U. Alabamensis Conr.</i>	Alabama.
58	xxxiii		leptodon Raf. <i>U. planus Barnes.</i> <i>Anodonta purpurescens Sw.</i> <i>Symphynota tenuissima Lea.</i>	Wisc., Ala., Scioto rivers.
60	xxxiv	1	ellipsiformis Conr.	Michigan.
60	xxxiv	2	lienosus Conr. <i>U. Nashvillianus Lea.</i>	Greene Co., Alabama.
62	xxxv	1	stapes Lea.	Alabama.
63	xxxv	2	intermedius Conr.	Nolachucky riv., Ten.
64	xxxvi	1	occidentalis Conr.	Currant river, Ark.

No. VIII.—February, 1837.

65	xxxvi	2	Unio collinus Conr.	North river, Va.
66	xxxvii	1	Sowerblanus Lea. (<i>U. pileus Conr.</i> , note on p. 69, N. F. W. S.)	Cumberland river, Tenn., Elk riv., Ala.
67	xxxvii	2	politus Say. <i>U. subrotundus Lea.</i>	
68	xxxviii	1	nexus Say. <i>U. arcæformis Lea.</i>	Cumberland river, Tenn.
69	xxxviii	2	Greenii Conr.	Bl. Warrior riv., Ala.
70	xxxix		Shepardianus Lea.	Altamaha river, Ga.
71	xl	1	compressus Desh. <i>Symphynota depressa Lea.</i>	Ohio, New York.

Page.	Pl.	Fig.	Name.	Locality.
72	xl	2	Unio capsæformis <i>Lea.</i> (On p. 4 of wrapper.)	Tennessee, Alabama.
			Anodonta carinifera <i>Conr.</i>	Below Louisville.
			Unio gibbosus var. perobliquus = U. perobliquus <i>Conr.</i>	

No. IX.—March, 1837.

73	xli	1	Unio subplanus <i>Conr.</i>	Lexington, Va.
74	xli	2	flavus <i>Raf.</i> <i>U. rubiginosus</i> <i>Lea.</i>	Alabama, Kentucky.
75	xlili		capax <i>Green.</i> <i>Symph. globosa</i> <i>Lea.</i>	Falls of St. Anthony, Bayou Teche, Ohio river.
76	xlili	1	rudis <i>Conr.</i> <i>U. Raveneliana</i> <i>Lea.</i>	North Carolina, Ala.
77	xlili	2	obliquus <i>Lam.</i> <i>U. ebenus</i> <i>Lea.</i>	Ohio, Alabama.
78	xliv	1	apiculatus <i>Say.</i> <i>U. asper</i> <i>Lea.</i>	Alabama riv., Bayou Teche.
79	xliv	2	prasinus <i>Conr.</i> <i>U. Schoolcraftensis</i> <i>Lea.</i>	Scioto river, Indiana.
80	xl v	1	nodulatus <i>Raf.</i> <i>U. pustulatus</i> <i>Lea.</i>	Ohio river, &c.
			Anodonta carinifera <i>Conr.</i> (p. 4 of wrapper.)	Below Louisville.

No. X.—May, 1838.

82	xl v	2	Unio bullatus <i>Raf.</i> <i>U. verrucosus albus</i> <i>Hldr.</i> <i>pustulosus</i> <i>Lea.</i>	Alabama.
83	xlvi	1	stegarius <i>Raf.</i> <i>U. irroratus</i> <i>Lea.</i>	Ohio, Indiana, Tenn.
84	xlvi	2	dromas <i>Lea.</i>	Tennessee, Alabama.
85	xlvi i	1	subtentus <i>Say.</i>	Tenn., Alabama, Va.
86	xlvi i	2	acutissimus <i>Lea.</i>	Alabama.
87	xlvi i	3	Conradius <i>Lea.</i>	Alabama, Tennessee.
88	xlvi i i		interruptus <i>Raf.</i> <i>U. brevidens</i> <i>Lea.</i>	Alabama, Tennessee.
89	xlvi x	1, 2	plexus <i>Conr.</i>	Vera Cruz?
90	xlvi x	3	heterodon <i>Lea.</i>	Schuylkill river, &c.
91	xlvi x	4	lenosus <i>Conr.</i> var. constrictus = U. constrictus <i>Conr.</i> of err., p. 4 of wrapper, No. 11.	North river, Va.
91	1	1	stramineus <i>Conr.</i>	Greene Co., Ala.

Page.	Pl.	Fig.	Name.	Locality.
92	1	2	Unio patulus Lea.	Tenn., Kentucky.
93	li	1	Hembell Conr.	New Orleans.

(End of Vol. I.)

No. XI.—November, 1838.

95	lii		Unio cerinus Conr.	Louisiana.
96	liii		latiradiatus Conr.	Tennessee.
			<i>U. interruptus</i> Lea.	
97	liv	1	subinflatus Conr.	Savannah river.
			<i>U. complanatus</i> var. <i>subinflatus</i> Conr.	
98	liv	2	angustatus Lea.	South Carolina.
99	liv	1	exultus Conr.	New Orleans.
100	liv	2	pullus Conr.	N. Carolina, S. Car.
101	lv	1	melinus Conr.	Salina Lake, N. Y.
102	lv	2	Sayanus Conr.	Greene Co., Ala.
			<i>U. Sayii</i> Ward.	
			<i>declivis</i> Conr.	

On page 4 of wrapper, descriptions of **Unio cuneus**, **metastriatus**, **lenis**, North Illinois, **planilateris**, **iridescens**, **saxeus**. Plate xviii, Fig. 1, is said to be **U. Fisherianus** Lea, and note on **Pleiodon McMurtrii**.

No. XII.—(No date.)

103	lvii	1	Unio planilateris Conr.	Virginia, N. Carolina.
104	lvii	2	metastriatus Conr.	Bl. Warrior riv., Ala.
105	lviii	1	cuneus Conr.	Little Red river, Ark.
106	lviii	2	lenis Conr.	White river, Ill.
107	lix		heros Say.	
			<i>U. undulatus</i> Say, not Barnes.	
			<i>multiplicatus</i> Lea.	
109	lx	1	saxeus Conr.	Claiborne, Ala.
109	lx	3	collinus Conr.	Columbia, S. C.
110	lx	2	trabalis Conr.	

No. XIII.—(No date.)

111	lxi		Unio tetralasmus Say.	Bayou St. John.
112	lxii		quadrulus Raf.	Ohio river, La., &c.
			<i>U. rugosus</i> Barnes.	
			<i>lachrymosus</i> Lea.	
			<i>asprerrimus</i> Lea.	
113	lxiii		cyphus Raf.	Ohio, &c.
			<i>U. Esopus</i> Green.	

Page.	Pl.	Fig.	Name.	Locality.
115	lxiv		Unio cinctricosus Say. <i>U. varicosus</i> Lea.	Ohio &c.
115			cardisæ Say = cordata .	
115			incurvus Say = intorta .	
116	lxv		plicatus Say. <i>U. ruriplicatus</i> Lam.	Ohio, Wisc.
117	lxvi		cardium Raf. <i>U. ventricosus</i> Barnes. <i>ovatus</i> var. b. Lam. <i>occidens</i> Lea.	

(The work was here discontinued.—W. G. B.)

Conrad.—American Marine Conchology; or descriptions and colored figures of the Shells of the Atlantic Coast of North America: by TIMOTHY A. CONRAD, Member of the Academy of Natural Sciences of Philadelphia. Printed for the author: Philadelphia, 1831. 8vo. 17 colored plates.

Page.	Pl.	Fig.	Name.	Locality.
6	i	1	Pecten Magellanicus Lam. <i>Ostrea magellanica</i> Gmelin.	Maine, Mass.
8	i	2, 3	concentricus Say. <i>P. opercularis</i> D'Avila?	New Jersey, Long Isl. Sound.
10	ii	1	purpuratus Lam. <i>P. dislocatus</i> Say.	Florida, Panama, Chili.
12	ii	2	Pealeii Conr.	Maine.
12	ii	3	ornatus Lam. <i>Ostrea pellucens</i> Gmel.	E. Florida, W. Indies.
14	ii	4	nodosus Gmelin.	E. Florida, Africa, S. Amer., W. Indies.
16	iii	1	Lima glacialis Gmelin. <i>Ostrea scabra</i> Dillwyn. <i>glacialis</i> Gmel.	East Florida, Gulf of Mexico, W. Indies.
17	iii	2	squamosa Lamark. <i>Ostrea lima</i> Linnaeus.	East Florida, Gulf of Mexico, Ceylon, Europe, &c.
19	iv	1	Solecurtus fragilis Pulteney. <i>Solen antiquatus</i> Montagu. <i>fragilis</i> Pult. <i>centralis</i> Say. <i>Psammobia tæniata</i> Turton.	Rhode Isl., Southern coast, England.
21	iv	2	costatus Say. <i>Solen costatus</i> Say.	Maine, R. I., N. J.

Page.	Pl.	Fig.	Name.	Locality.
22	iv	3	Solecurtus Caribæus Blainville. <i>Solen caribæus</i> Lam. <i>Chama angustior</i> Lister.	N. J., Florida.
27	v	1	Solen ensis Linnaeus. <i>S. curvus</i> Lister.	Whole coast.
28	v	2	viridis Say.	N. J., R. I., S'm coast.
30	vi	1	Nucula limatula Say. <i>N. lavis</i> Say?	R. Island, Virginia.
31	vi	2	proxima Say. <i>N. obliqua</i> Say?	R. I., Southern coast.
32	vi	3	acuta Say.	Fossil in Virginia.
34	vii	1	Sanguinolaria fusca Say. <i>Psammobia fusca</i> Say.	Ga., R. I., N. J., N. Y. Va.
35	vii	2	lusoria Say. <i>Psammobia lusoria</i> Say.	N. J., Southern coast.
37	vii	3	Petricola pholadiformis Lamark. <i>P. fornicata</i> Say.	Whole coast to Maine.
39	viii	1	Cardita borealis Conrad. <i>Venericardia borealis</i> ?	Massachusetts.
39	viii	2	incrassata Sowerby.	Florida, E. Indies.
42	ix	1	Mya arenaria Linnaeus. <i>M. acuta</i> Say. <i>mercenaria</i> Say.	Whole coast, England, &c.
44	ix	2	Thracia declivis Pennant. <i>Mya declivis</i> Pennant. <i>Ligula pubescens</i> Montagu. <i>Mya convexa</i> Wood. <i>Anatina myalis</i> Lamark. <i>Thracia corpuloides</i> Blainv.?	Eastern States, Great Britain.
45	x	1	Lutraria canaliculata Say. <i>L. Campechensis</i> Wood.	Virginia to Florida, Gulf of Mexico.
47	x	2	lineata Say. <i>L. recurva</i> Wood.	N. Carolina to Florida.
49	xi	1	Pandora trilineata Say	N. J., Southern coast.
51	xi	2	Lyonsia hyalina Conrad. <i>Mya hyalina</i> Conrad. <i>L. Norwegica</i> Auct.?	Long Island Sound, Rhode Island.
53	xi	3	Lepton fabagella Conrad.	Rhode Island.
55	xii		Artemis concentrica Gmelin. <i>Cythera concentrica</i> Lamark. <i>Venus concentrica</i> Gmelin.	Virginia to Florida & Gulf of Mexico.
56			Rangia (Clathradon Gray MSS.)	
57	xiii		cyrenoides Conrad.	Alabama.
59	xiv	1	Macra deaurata Turton. <i>M. arctata</i> Conrad.	New England.

Page.	Pl.	Fig.	Name.	Locality.
60	xiv	2	Maetra tellinoides Conrad.	Whole coast.
61	xiv	3	<i>fragilis</i> Chemnitz. <i>M. oblonga</i> Say.	S. Carolina, Georgia.
62	xiv	4, 5	<i>lateralis</i> Say.	Gulf of Mex. at Mobile.
63	xiv	6	<i>nucleus</i> Conrad.	New Jersey.
64	xiv	7	<i>solidissima</i> Chemnitz.	New Jersey.
	xv		<i>M. solida</i> var. b, Gmelin. <i>procera</i> Solander. <i>grandis</i> Solander. <i>gigantea</i> Lamark. <i>similis</i> Say.	
The smaller form, south of Virginia, if distinct, may be called <i>M. Raveneli</i> .				
66	xvi		Solemya velum Say. <i>S. borealis</i> Totten.	R. I., Mass., S. C.
68	xvii	1	Iphigenia lævigata Schumacher. <i>Ionar lævigata</i> Gmelin. <i>Capsa lævigata</i> Lam.	Florida.
70	xvii	2	Capsa deflorata Linnæus. <i>Venus deflorata</i> Linn. <i>Capsa rugosa</i> Bruguiere. <i>Sanguinolaria rugosa</i> Lamark. <i>Capsula rugosa</i> Schumacher. <i>Pseudobia deflorata</i> Turton. <i>Chama diffusior</i> Lister.	Florida.
72	xvii	3	Astarte castanea Say. <i>Venus castanea</i> Say, olim.	N. Jersey, R. Island.

Totten.—Description of some Shells belonging to the Coast of New England: by JOS. G. TOTTON. No. 2. (From American Journal of Science, O. S., vol. xxviii, No. 2. Date of title-page, July, 1835.)

Page.	Fig.	Name.	Locality.
347	1	Anatina papyratia Say? <i>A. fragilis</i> Totten.	Newport, R. I.
348	2	Astarte castanea Say? <i>A. procera</i> Totten.	Provincetown, Mass.
349	3	Danmoniensis Cook. <i>Venus Danmoniensis</i> Mont. <i>crumena</i> N. <i>Chama Danmoniensis</i> Lam.	Newport, R. I.
350	4	Bella inculpta Totten.	Newport, R. I.
350	5	Corya Totten.	Newport, R. I.
351	6	— <i>—</i> <i>—</i> Totten.	Newport, R. I.
352	7	— <i>—</i> <i>—</i> Totten.	Newport, R. I.
		<i>—</i> <i>—</i> <i>—</i> Totten.	Narragansett Banks, R. I., Rhode.

Greene, &c.—A Catalogue of the Testacea or Shells of Massachusetts was published in HITCHCOCK's "Report on the Geology, Botany, and Zoology," made to the government of that State. In the second edition (1835) are catalogues by THOMAS A. GREENE, JOHN MILTON EARLE, and the Boston Society of Natural History. No descriptions are given.

This is the second edition. In the first edition (1833), p. 554 of bound Reports, is a list of the shells of New England, by Col. Jos. G. TOTTEN (vid. p. 45), for which the Society catalogue is substituted in the second edition.

Greene.—List of the Marine Shells of Massachusetts, arranged according to the System of Lamarck. By THOMAS A. GREENE, Esq., of New Bedford.

CLASS XI. CONCHIFERA.

Order I. Bimusculosa.

Page.	Name.	Locality.
19	<i>Teredo navalis.</i>	On the bottoms of ships.
19	<i>Pholas crispata.</i>	
19	<i>Solen ensis.</i>	
19	<i>viridis.</i>	Not common in the N. E. States.
19	<i>Solecurtus Caribæus</i> (rare).	Found at New Bedford.
19	<i>costatus</i> Say.	Common at Nahant Beach.
19	<i>fragilis.</i>	Found at New Bedford.
	<i>S. centralis</i> Say.	
19	<i>Mya mercenaria</i> Say.	
19	<i>Anatina convexa</i> Turton.	
	<i>Thracia</i> Blainville.	
19	<i>Leana</i> Conrad.	At Nantucket.
	<i>A. prætensis?</i> Turton.	
19	<i>Macra solida.</i>	
19	<i>gigantea</i> Lam.	
	<i>M. solidissima</i> Dillwyn.	
19	<i>subtruncata.</i>	
19	<i>lateralis</i> Say.	
19	<i>subtriangulata.</i>	
	<i>M. arcata</i> Conrad.	
	Figured in the supplement to Wood's "Index Testaceologicus."	
20	<i>tellinoides</i> Conrad.	
20	<i>Solemya velum</i> Say.	Not uncommon at New Bedford.
20	<i>Amphidesma corbuloides.</i>	
	<i>Mya Norwegica</i> Wood & Dill.	
	<i>hyalina</i> Conrad.	

Page.	Name.	Locality.
20	Corbula ferruginosa. <i>Mya ferruginosa</i> Wood.	
20	Pandora trilineata Say.	Found in Nantucket harbor.
20	Petricola pholadiformis Lam. <i>P. fornicata</i> Say.	Very common.
20	Sanguinolaria fusca Conrad.	At Nantucket.
20	Tellina polita Say.	Found at New Bedford.
20	Lucina divaricata. <i>Astarte castanea</i> Say.	A single valve found at Chatham. Ocean shore at Nantucket.
20	Astarte.	A distinct species, with margins entire.
20	Cyprina Islandica. <i>Venus Islandica</i> L.	Common in Essex County.
20	Venus mercenaria. <i>præparca</i> Say. <i>notata</i> Say.	
20	Cardium Mortoni Conrad.	Very common at New Bedford.
20	pinnulatum Conrad.	
20	Cardita.	This species appears to be undescribed.
20	Arca ponderosa Say.	} Found at Smith's point, on the ocean shore of Nantucket.
20	pexata Say.	
20	transversa Say.	
20	Nucula margaritacea. <i>N. proxima</i> Say. <i>Arca nucleus</i> L.	Not uncommon in Buzzard's Bay.
20	rostrata Montague. <i>N. limatula</i> Say.	

Order II. Unimusculesa.

20	Modiola papuana. <i>Mytilus modiolus</i> L.	
20	Mytilus edulis. <i>ungulatus.</i> <i>pellucidus.</i> <i>incurvatus.</i> <i>demissus.</i>	Very abundant at New Bedford.
21	Pecten Magellanicus.	Rare in Mass., common at Eastport, Me.
21	Islandicus (rare). <i>P. Præci</i> Conrad.	
21	concentricus Say.	
21	Ostrea Virginica.	
21	Anomia ephippium.	Abundant in New Bedford.
21	undulata.	Is it a distinct species from the preceding?



CLASS XII. MOLLUSCA.

Order II. Gasteropoda.

Page.	Name.	Locality.
21	Chiton. Not described to my knowledge.	Found at Nantucket.
21	Patella alveus Conrad.	
21	<i>amœna</i> Say.	
21	Crepidula fornicata Say.	Very common on our coast.
21	<i>glauca</i> Say.	
21	<i>plana</i> Say.	Found in Nantucket harbor.

Order III. Trachelipoda.

21	Velutina rupicola Conrad.	
21	Bulla solitaria Say.	Found at Holme's Hole.
	Is it a variety of <i>B. hydatis</i> ?	
21	Natica duplicata Say.	
21	<i>heros</i> Say.	
21	<i>triseriata</i> Say.	
	<i>Nerita intricata</i> of Wood's Supplement.	
21	Melampus videntatus Say.	Common in salt marshes, N. Bed.
21	Lacuna pertusa Conrad.	
21	Turbo obligatus Say.	
21	<i>irroratus</i> Say.	
21	<i>palliatu</i> s Say.	
21	Turritella bisuturalis Say.	
21	<i>alternata</i> Say.	
21	Fusus Islandicus.	
	<i>Murex corneus</i> Wood & Dill.	
	<i>F. corneus</i> Say.	
21	<i>cinereus</i> Say.	
22	<i>decemcostatus</i> Say.	
	<i>Murex carinatus</i> Pennant.	
22	Ranella caudata.	At Nantucket.
22	Pyrula canaliculata.	
	<i>Murex canaliculata.</i>	
22	<i>carica.</i>	
22	Nassa obsoleta Say.	
	<i>Buccinum noveboracense</i> Wood's Supplement.	
22	<i>trivittata</i> Say.	
22	<i>lunata</i> Say.	
22	Purpura lapillus.	
	<i>Buccinum lapillus</i> L.	
22	<i>imbricata</i> Lam.	
22	Buccinum undatum L.	
22	Columbella terpsichore.	
	<i>Buccinum terpsichore</i> , Wood's Supplement.	

Order IV. **Cephalopoda.**

Page.	Name.	Locality.
22	Spirula Peronii. <i>Nautilus spirula</i> L.	Found on the ocean shore of Nantucket.

Earle.—List of Land and Fresh-water Shells in Massachusetts so far as they have been ascertained: by Mr. JOHN MILTON EARLE, of Worcester. (Vide p. 39.)

I. BIVALVES.

Page.	Name.	Locality.
22	Unio complanatus Lam. <i>U. purpurus</i> Say.	
22	nasutus Say.	Ponds in Essex & Plymouth Cos.
22	ochraceus Say.	Ponds in Plymouth County.
22	radiatus Say.	Ponds in Plymouth & Essex Cos.
22	Alasmodonta margaritifera L. <i>A. arcuata</i> Barnes.	
22	marginata Say.	Blackstone river.
22	undulata Say.	Do. and streams in Plym. Co.
22	Anodonta cataracta Say.	
22	marginata Say.	Blackstone and French rivers.
22	lugubris Say.	Ponds in Essex County.
22	Cyclas similis Say.	
22	dubia Say.	
	And two species not described.	

II. UNIVALVES.

Page.		Page.	
22	Paludina decisa Say.	22	Planorbis parvus Say.
22	limosa ? Say.	22	Lymnaea catascopium Say.
22	Planorbis trivolvis Say.	22	heterostrophus Say.
22	bicarinatus Say.	22	columella Say.
22	armigerus Say.		And one species not ascertained.
22	campanulatus.	22	Valvata arenifera ? Lee.

LAND SHELLS.

22	Helix albolabata.	22	Helix minuta Say.
22	arborea Say.	22	hiruta Say.
22	tridentata Say.	22	labyrinthica Say.
22	alternata Say.	22	perspectiva Say.
22	glyphys Say.	22	haemata Say.
22	thyroideus Say.		And two other species.

AMPHIBIOUS.

Page.		Page.	
23	<i>Succinea ovalis</i> Say.	23	<i>Pupa corticaria</i> ? Say.
23	<i>campestris</i> ? Say.	23	<i>Caracolla</i> .
	And one species not ascertained.		One species not ascertained.

Catalogue of Boston Society of Natural History. (Vide p. 39.)

CLASS XI. CONCHIFERA Lam.

Order I. *Bimusculosa*.

Page.		Page.	
25	<i>Solen ensis</i> Lin.	25	<i>Astarte castanea</i> Say.
25	<i>viridis</i> Say.	25	<i>Cyclas similis</i> Say.
25	<i>Solecurtus Caribæus</i> Blain.	25	<i>dubia</i> Say.
25	<i>maximus</i> .	25	<i>Cyprina Islandica</i> Lam.
25	<i>costatus</i> Say.	25	<i>Cytherea convexa</i> Say.
25	<i>fragilis</i> Pulteney.	25	<i>Venus mercenaria</i> Lin.
25	<i>Glycimeris siliqua</i> Lam.	25	<i>præparca</i> Say.
25	<i>Mya mercenaria</i> Lin.	25	<i>notata</i> Say.
25	<i>Anatina Leana</i> Conrad.	25	<i>gemma</i> Totten.
25	<i>convexa</i> .	26	<i>Cardium Mortonii</i> Conrad.
25	<i>Mactra gigantea</i> Lam.	26	<i>pinulatum</i> Conrad.
25	<i>lateralis</i> Say.	26	<i>Cardita borealis</i> Conrad.
25	<i>arctata</i> Conrad.	26	<i>Arca ponderosa</i> Say.
25	<i>tellinoides</i> Conrad.	26	<i>pexata</i> Say.
25	<i>Solemya velum</i> Say.	26	<i>transversa</i> Say.
25	<i>borealis</i> Totten.	26	<i>Nucula margaritacea</i> Lam.
25	<i>Amphidesma corbuloides</i>	26	<i>rostrata</i> Montague.
	Lam.	26	<i>Unio complanatus</i> Soland.
25	<i>Corbula ferruginosa</i> Wood.	26	<i>nasutus</i> Say.
25	<i>contracta</i> Say.	26	<i>ochraceus</i> Say.
25	<i>Pandora trilineata</i> Say.	26	<i>radiatus</i> Lea.
25	<i>Saxicava distorta</i> Say.	26	<i>Alasmodonta arcuata</i> Bar.
25	<i>Petricola pholadiformis</i>	26	<i>marginata</i> Say.
	Lam.	26	<i>undulata</i> Say.
25	<i>dactylus</i> Say.	26	<i>Anodonta cataracta</i> Say.
25	<i>Sanguinolaria fusca</i> Conrad.	26	<i>marginata</i> Say.
25	<i>Tellina polita</i> Say.	26	<i>lugubris</i> Say.
25	<i>Lucina divaricata</i> Lam.		

Order II. *Unimusculosa*.

26	<i>Modiola papuana</i> Lam.	26	<i>Mytilus unguatus</i> Humboldt.
26	<i>plicatula</i> Lam.	26	<i>incurvatus</i> Maton.
26	<i>glandula</i> Totten.	26	<i>pellucidus</i> .
26	<i>Mytilus edulis</i> Lin.	26	<i>Pecten Magellanicus</i> Lam.

Page.		Page.	
26	Pecten Islandicus Lam.	26	Ostrea edulis Lin. (var.)
26	<i>concentricus</i> Say.	26	Anomia ephippium Lin.
26	Ostrea Canadensis Lam.	26	Terebratula.
26	<i>Virginica</i> Lam.		An undescribed recent species.

CLASS XII. **MOLLUSCA.**Order II. **Gasteropoda.**

26	Chiton.	27	Ancylus rivularis Say.
	One species.	27	Velutina rupicola Conrad.
26	Patella alveus Conrad.	27	Bulla solitaria Say.
26	<i>amœna</i> Say.	27	Limax.
26	Crepidula fornicata Say.		One or more species.
26	<i>glauca</i> Say.	27	Testacella.
27	<i>plana</i> Say.		One or more species.
27	<i>convexa</i> Say.		

Order III. **Trachelipoda.**

27	Helix albolabris Say.	27	Valvata arenifera Lea.
27	<i>thyroidus</i> Say.	27	Paludina decisa Say.
27	<i>alternata</i> Say.	27	<i>limosa</i> Say.
27	<i>perspectiva</i> Say.	27	<i>lapidaria</i> Say.
27	<i>glaphyra</i> Say.		One other species.
27	<i>arborea</i> Say.	27	Natica duplicata Say
27	<i>tridentata</i> Say.	27	<i>heros</i> Say.
27	<i>hirsuta</i> Say.	27	<i>triseriata</i> Say.
27	<i>fraterna</i> Say.	28	Melampus bidentalis Say.
27	<i>labyrinthica</i> Say.	28	Vermetus lumbricalis Lam.
27	<i>minuta</i> Say.	28	Lacuna pertusa Conrad
27	<i>subglobosa</i> (MSS.)	28	<i>fusca</i> (MSS.)
27	Pupa fallax Say.	28	Turbo obligatus Say.
27	<i>corticaria</i> Say.	28	<i>palliatu</i> s Say.
27	Succinea ovalis Say.	28	<i>vestita</i> Say.
27	<i>campestris</i> Say.	28	<i>irroratus</i> Say.
27	Auricula myosotis Drap.	28	<i>inflatus</i> Totten.
27	Planorbis trivolv is Say.	28	<i>minutus</i> Totten.
27	<i>bicarinatus</i> Say.	28	Turritella alternata Say.
27	<i>armigerus</i> Say.	28	<i>bisuturalis</i> Say.
27	<i>campanulatus</i> Say.	28	Fusus corneus Say.
27	<i>parvus</i> Say.	28	<i>cinereus</i> Say
	Two or more other species.	28	<i>decemcostatus</i> Say.
27	Physa heterostropha Say.	28	Pyrula caniculata Lam.
27	Lymnœa catascopium Say.	28	<i>carica</i> Lam.
27	<i>columella</i> Say.	28	Ranella caudata Say.
27	<i>ovata</i> Lam.	28	Purpura lapillus Lam.
	Two or more other species.	23	<i>imbricata</i> Lam.

Page.		Page.	
25	Anodonta areolatus Swains.	25	Alasmodonta globosa Lea.
25	subvexa Conr.	25	costata Raf.
25	deolivilis Conr.		<i>A. rugosa</i> Barnes.
25	teres Conr.	25	hians Raf.
25	plana Lea.		(an <i>costata</i> Monstr.?)
25	Stewartiana Lea.	25	marginata Say, Raf.
25	Benedictensis Lea.		<i>Decurambis scriptum</i> Raf.
25	glauca Valenc. (Acapulco).		(d'après Conr.)
25	impura Say (Mexico).		<i>U. cariosa</i> Lam. (var. 2).
25	Dipsas? fragilis Raf.	26	<i>Mya rugulosa</i> Wood.
	(Lasmonos).	26	undulata Say, Barnes.
25	Symphynota complanata		<i>U. varicosa</i> Lam.
	Lea.		<i>hians</i> Valenc.
	(<i>Alasmodonta</i> Barn., Conr.)		<i>glabratus</i> Sowerby.
25	alata Lea.		<i>Mya undulata</i> Wood Sup.
	<i>U. alatus</i> Say, Lam., Wood.	26	monodonta Say (<i>Unio</i>).
	<i>megapterus</i> Raf.		<i>U. soleniformis</i> Lea.
25	fragilis Raf.	26	confragosa Say, Conr.
	(S. G. <i>Leptodea</i> .)	26	ambigua Say.
	<i>U. gracilis</i> Barnes, Lea.	25	ponderosum Raf.
	<i>planus</i> Barnes (d'après		(<i>Lasmigona</i> .)
	M. Lea).	26	rugosum Raf. id.
	<i>fragilis</i> Swains., Conr.	26	sulcatum Raf. id.
	<i>S. gracilis</i> Lea.	26	viridis Raf. id.
25	Ohienis Raf.	26	atropurpureum Raf.
	(S. G. <i>Lastena</i> .)		(<i>Decurambis</i> .)
	<i>U. lævissima</i> Conrad.	26	badium Raf. (<i>Sulcularia</i> .)
	<i>S. lævissima</i> Lea.	26	papyraceum Raf. id.
25	compressa Lea.	26	sculptilis Say, Conr.
	<i>U. compressus</i> Conr.	26	radiata Conr.
25	inflata Lea.	26	dubia Say.
	(<i>U. Ohienis</i> ? Say.)		<i>U. Hildrethianus</i> Lea.
	<i>U. Alabamensis</i> Conr.	26	margaritifera Linné. (<i>Mya</i> .)
25	leptodon Raf.		<i>Margaritana fluviatilis</i> Sch.
	(S. G. <i>Leptodea</i> .)		<i>U. elongata</i> Lam., Mich.
	<i>S. tenuissima</i> Lea.		<i>Roissyi</i> Mich.
	<i>A. purpurescens</i> Swains.		<i>Alasm. arcuata</i> Barnes.
	<i>U. leptodon</i> Conr.	26	Ravenelliana Lea.
	<i>planus</i> Barn. (selon M.		(<i>Margaritana</i> .)
	Say?)	26	Unio parvus Barnes.
25	diaphanus? Raf.	26	Glans Lea.
	(<i>Metaptera</i> ?)		(<i>parvus</i> ? Say.)
25	lasmabrachis? Raf.	26	Lens Lea.
	(<i>Metaptera</i> ?)		(<i>lævigatus</i> , selon Conr. ; sub-
25	Poulsoni Conr.		rotundus, selon Say.)

Page.

- 26 **Unio suborbiculatus** Lam.
U. rotundata Lam.
globulus Say.
sublobosus Lea.
- 26 **tetralasmus** Say.
- 26 **lanceolatus** Lea.
- 26 **declivis** Say.
U. geometricus Lea.
- 26 **subrostratus** Say.
(an *U. nasutus*?)
- 26 **nasutus** Say, Barnes.
U. rostrata Valenc.
Mya nasuta Wood.
- 26 **complanatus** Soland., Dilw.
U. violaceus Spengl.
purpureus Say, Barnes.
coarctata Lam.
(d'après son exempl.)
purpurascens Lam. id.
rhombula Lam. id.
carinifera Lam. id.
georgiana Lam. id.
sulcidens Lam. id.
glabrata Lam. id.
rarisulcata Lam. id.
fluvialilis Green?
aurata Raf. (d'après
Conr.)
- 26 **oongarseus** Lea.
- 26 **angustatus** Lea.
- 26 **subtentus** Say.
- 26 **Carolinianus** Bosc.
U. obesus Lea.
- 26 **camptodon** Say.
(an *Carolinianus*?)
- 26 **heterodon** Lea.
- 26 **iris** Lea.
(subrostratus, selon Say.)
- 26 **calceolus** Lea.
(*Alas. marginata*, selon Say;
truncata Say, selon Conr.)
- 26 **purpuratus** Lam.
U. ventricosa Soland.
lugubris Say.
ater Lea.

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- 26 **Unio fasciolus** Raf. (son ex.)
U. suboratus Lea. id.
(*Cardium*, var., selon Say et
Conr.)
jun. multiradiatus Lea, Con.
(*fasciolus* Raf., selon Say.)
- 26 **ovatus** Say, Lam., Raf., Barn.
- 26 **ochraceus** Say, Conr.
Symph. ochracea Lea.
- 26 **ventricosus** Barnes.
U. Cardium Say, Conr.
- 26 **Cardium** Raf. Say.
U. ventricosus Barnes, var.
Occidens Lea.
ovatus Lam., var. b.
- 26 **capax** Green, Conr.
(*Cardium*, var., selon Say.)
- 26 **cariosus** Say, Lam., Barn.
U. luteula Lam. (d'après
son exempl.)
oratus Valenc.
- 27 **viridis** Raf.
(*cariosus*, selon Say.)
- 27 **siliquoides** Barnes.
(*cariosus*, selon Say.)
(*inflatus*, selon Conr.)
U. rigida Wood
a) *inflatus* Barnes?
- 27 **fasciatus** Raf., Say.
U. carinatus Barnes, selon
Say et Conr
- 27 **radiatus** Spengl Gmel., Lam.
U. oblongata Wood Sup.
Virginiana Lam.
- 27 **teres** Raf.
U. anodontoides Lea.
- 27 **rectus** Lam., Valenc.
U. latissima Raf.
prolongus Barnes.
Mya praelonga Wood.
- 27 **crassus** Say, Raf.
(*cariosus* Say selon Conr.)
U. crassidens Lam var. c.
ellipticus Barnes.
(*cariosus* Say, selon Conr.)

Page.		Page.	
	<i>U. carinatus</i> Barnes.	27	Unio fascicularis Raf.
	<i>Mya gravis</i> Wood, Sup.		<i>U. phaseolus</i> Hild., Say.
27	Unio ligamentina Lam.		<i>mucronatus</i> Barnes.
	<i>U. ellipsaria</i> Raf.		<i>planulatus</i> Lea.
	(<i>crassus</i> , selon Say; <i>lineolatus</i> , selon Conr.)		<i>sinuatus</i> Raf. ? (sel. Con.)
27	verrucosus Raf., Say.		<i>bicolor</i> Raf. ? id.
	<i>U. tuberculatus</i> Barnes.	27	Unio niger Raf., Say.
27	quadrulus Raf.		<i>U. crassidens</i> Lam., var. b.
	<i>U. rugosus</i> Barnes.		<i>cuneatus</i> Barnes.
	<i>asperrimus</i> Lea.		<i>Bariosta ponderosa</i> Raf.
27	lachrymosus Lea.		(d'après l'ex. env. par lui.)
	(<i>quadrulus</i> Say, Conr.)	27	Venus Raf.
27	trapezoides Lea.	27	fabalis Lea.
	<i>U. crassidens</i> Lam., var. a.		<i>U. lapillus</i> Say.
	<i>interruptus</i> Say.	27	nervosus Raf.
27	Heros Say.		<i>U. zig-zag</i> Lea.
	<i>U. multiplicatus</i> Lea.	27	donaciformis Lea ?
	<i>undulatus</i> Say.		(<i>nervosus</i> , selon Say.)
27	plicatus Say, Barn., Hildr.		(<i>truncatus</i> , selon Conr.)
	<i>U. Peruviana</i> Lam. (d'après son exempl. ; <i>costatus</i> ? selon Say.)	27	truncatus Raf.
	<i>variplicata</i> Lam.		<i>U. elegans</i> Lea.
	<i>Dombeiana</i> Valenc.	27	triqueter Raf.
	<i>crassus</i> Barnes.		<i>U. triangularis</i> Barnes.
27	costatus Raf.		<i>cuneatus</i> Swainson.
	<i>U. undulatus</i> Barnes.		<i>formosus</i> Lea.
	<i>undulatus</i> Valenc.	27	foliatus Hildr.
27	apiculatus Say.	27	Cyphia Raf.
	<i>U. asper</i> Lea (sp. dis. ? Con.)		<i>U. Æsopus</i> Green.
27	metanevrus Raf.	27	gibbosus Raf.
	<i>U. nodosus</i> Barnes.		<i>U. perplexus</i> Lea.
27	cylindricus Say.		a) <i>Epioblasma biloba</i> Raf. ?
	<i>U. naviformis</i> Lam., Valenc.	28	torulosus Raf.
	<i>solenoides</i> Raf.		(<i>gibbosus</i> , selon Conr.)
27	dilatatus Raf.	28	reflexus Raf.
	<i>U. nasutus</i> Lam.		<i>U. cornutus</i> Barnes.
	<i>gibbosus</i> Barnes.	28	pachostea Raf.
	<i>atro-violacea</i> Raf.		(<i>triangularis</i> , selon Conr.)
	(d'après Conr.)		<i>U. Cooperianus</i> Lea.
	<i>jun. cuprea</i> Raf. id.	28	tuberculatus Raf.
	a) <i>mucronatus</i> Barnes.		<i>U. verrucosus</i> Barnes.
27	flavus Raf.		<i>verrucosus purpureus</i> Hil.
	<i>U. rubiginosus</i> Lea.		<i>tuberculosa</i> Valenc.
		28	verrucosus Val.
			<i>U. verrucosus</i> Barn., var.
			<i>verru</i> <i>us</i> Hildr.

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|--|---|
| <p>Page.</p> <p>28 Unio bullatus Raf.</p> <p>28 plumbeus Nob.
 <i>Chama plumbea</i> Chemn.
 <i>U. nodulosus</i> Wood.</p> <p>28 pustulosus Lea.
 <i>(bullatus</i> Say, Conr.)</p> <p>28 nodulatus Raf.
 <i>U. pustulatus</i> Lea.</p> <p>28 Stegarius Raf.
 <i>U. irroratus</i> Lea.</p> <p>28 retusa Lam.
 <i>U. torsus</i> Raf.</p> <p>28 subrotundus Raf.
 <i>U. rotunda</i> Wood.
 <i>Circulus</i> Lea.
 <i>orbiculatus</i> Hildr.
 <i>pusilla</i> Raf. (selon Conr.)
 <i>striatus</i> Raf. id.</p> <p>28 lævigatus Raf.</p> <p>28 castaneus Lea.
 <i>(lævigatus?</i> selon Say.)</p> <p>28 politus Say.
 <i>U. subrotundus</i> Lea.
 <i>(personatus,</i> selon Conr.)</p> <p>28 personatus Say.</p> <p>28 Cyclips Raf.
 <i>U. abruptus</i> Say.
 <i>Calendis</i> Raf. (sel. Conr.)</p> <p>28 obliquatus Raf.
 monstr. <i>U. Haysianus</i> Lea.
 a) <i>U. sulcatus</i> Lea.
 monstr. <i>U. ridibundus</i> Say.</p> <p>28 olivarius Raf., Conr.
 <i>U. ellipsis</i> Lea.
 <i>(triangularis</i> Raf., sel. Say.)</p> <p>28 triangularis Raf.</p> <p>28 olcatricosus Say.
 <i>(Cyphia</i> Raf., selon Conr.)
 <i>U. varicosus</i> Lea, id.</p> <p>28 obliqua Lam.
 <i>U. obovalis</i> Raf.
 <i>ebenus</i> Lam.
 <i>Mya obliqua</i> Wood?</p> | <p>Page.</p> <p>28 Unio lineolatus Raf.
 <i>U. depressus</i> Raf.
 <i>Securis</i> Lea.</p> <p>28 interruptus Raf.
 <i>U. brevidens</i> Lea.</p> <p>28 nexus Say.
 <i>U. arciformis</i> Lea.</p> <p>28 undatus Barnes.
 <i>U. trigonus</i> Lea.</p> <p>28 decisus Lea.
 <i>(Scalenius?</i> var., sel. Say.)</p> <p>28 cuneatus Raf.
 <i>(Scalenius,</i> selon Conr.)
 <i>U. patulus</i> Lea.
 <i>(Scalenius,</i> selon Conr.)</p> <p>28 lateralis Raf.
 <i>(triangularis,</i> selon Conr.)
 <i>U. crassus</i> Barnes, var. c.</p> <p>28 sintoxia Raf.
 <i>(triangularis,</i> selon Conr.)</p> <p>28 mytiloides Raf.
 <i>(triangularis,</i> selon Conr.)
 <i>U. caridiacea</i> Say of Guérin.
 <i>pyramidatus</i> Lea.
 <i>(triangularis,</i> selon Conr.)
 <i>U. rubra</i> Raf.
 <i>(triangularis,</i> selon Conr.)</p> <p>28 Clava Lam.
 <i>U. Scalenia</i> Raf.
 <i>modioliformis</i> Say.</p> <p>28 retusus Raf., Conr.</p> <p>28 stapes Lea, Conr.
 <i>(retusus?</i> Say.)</p> <p>28 flexuosus Raf., Conr.</p> <p>28 pileus Lea, Conr.
 <i>(flexuosus</i> Say?)</p> <p>28 acutissimus Lea.</p> <p>28 Velum Say.</p> <p>28 elliptica Raf.</p> <p>28 zonalis Raf.</p> <p>28 montanus Raf.
 (Contin. of a Monogr.)</p> <p>28 rimosus Raf. id.</p> |
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Page.		Page.	
23	<i>Unio fulves Raf.</i>	29	<i>Unio rubellus Contr.</i>
	(Contin. of a Monogr.)	29	<i>furvus Contr.</i>
28	<i>roseus Raf.</i> (Monogr.)	29	<i>Raveneli Contr.</i>
29	<i>pallidus Raf.</i> id.	29	<i>icterinus Contr.</i>
29	<i>vittatus Raf.</i>	29	<i>tenebrosus Contr.</i>
	(Contin. of a Monogr.)	29	<i>altilis Contr.</i>
	(<i>inflatus?</i> selon Contr.)	29	<i>perovalis Contr.</i>
29	<i>diploderma Raf.</i> id.	29	<i>prasinus Contr.</i>
29	<i>perplexus Raf.</i> id.	29	<i>infucatus Contr.</i>
29	<i>granulatus Raf.</i> id.	29	<i>oviformis Contr.</i>
29	<i>metaplata Raf.</i> id.	29	<i>perovatus Contr.</i>
29	<i>decorticata Raf.</i> (Monogr.)	29	<i>lienosus Contr.</i>
29	<i>Cliffortiana Raf.</i> id.	29	<i>stramineus Contr.</i>
29	<i>attenuata Raf.</i> id.	29	<i>arcus Contr.</i>
29	<i>plateolus Raf.</i>	29	<i>Blandingianus Lea.</i>
	(Contin. of a Monogr.)	29	<i>Camelus Lea.</i>
29	<i>tenellus Raf.</i> id.	29	<i>capillaris Lea.</i>
29	<i>pallens Raf.</i> id.		(an <i>U. personatus</i> Say?)
29	<i>rivularis Raf.</i> id.	29	<i>capsæformis Lea.</i>
29	<i>fontinalis Raf.</i> id.	29	<i>confertus Lea.</i>
29	<i>Chloris Raf.</i> id.	29	<i>Conradicus Lea.</i>
29	<i>castaneus Raf.</i> id.	29	<i>Dromas Lea.</i>
29	<i>cordatus Raf.</i> (Monogr.)	29	<i>fulvus Lea.</i>
29	<i>cinerescens Raf.</i>	29	<i>Griffithianus Lea.</i>
	(Contin. of a Monogr.)	29	<i>Kirtlandicus Lea.</i>
29	<i>lividus Raf.</i> id.	29	<i>modioliformis Lea.</i>
29	<i>flexus Raf.</i> id.	29	<i>Nashvillianus Lea.</i>
29	<i>marginatus Raf.</i> id.	29	<i>Perdix Lea.</i>
29	<i>brevialis Sow.?</i>	29	<i>pictus Lea.</i>
29	<i>metallicus Say.</i> (Mexique.)	29	<i>Ravenelianus Lea.</i>
	<i>U. cuprinus Lea.</i>	29	<i>Schoolcraftensis Lea.</i>
29	<i>purpuratus Say.</i>	29	<i>Shepardianus Lea.</i>
29	<i>tceniatus Contr.</i>	29	<i>Sowerbianus Lea.</i>
29	<i>trabalis Contr.</i>	29	<i>Taitianus Lea.</i>
29	<i>nebulosus Contr.</i>	29	<i>Troostensis Lea.</i>
29	<i>Cor Contr.</i>	29	<i>Cyclas similis Say.</i>
29	<i>cœlatus Contr.</i>		<i>C. striatula Lam.</i>
29	<i>maculatus Contr.</i>	29	<i>sulcata Lam.</i>
29	<i>vibex Contr.</i>	29	<i>sarratogea Lam.</i>
29	<i>Greenii Contr.</i>	29	<i>rhomboidea Say.</i>
29	<i>penitus Contr.</i>	29	<i>partumeia Say.</i>
29	<i>Masoni Contr.</i>	29	<i>Virginica Gmel. (Tellina.)</i>
29	<i>delumbis Contr.</i>		<i>T. pusilla Dillw., Turton.</i>
29	<i>arotatus Contr.</i>	29	<i>æqualis Raf.</i>
29	<i>pectorosus Contr.</i>	29	<i>lasmanpsis Raf.</i>

Page.		Page.	
29	<i>Cyclas Caroliniana</i> Bos., Lam. (<i>Cyrena</i> Say.)	29	<i>Cyclas hammalis</i> Raf. (<i>Corbicula</i> .)
29	<i>dubia</i> Say.	29	<i>staminea</i> Contr.
29	<i>edentula</i> Say.	29	<i>Tremesia patelloides</i> Raf.
29	<i>transversa</i> Say.	29	<i>Rangia cyrenoides</i> Desm.
29	<i>triangularis</i> Say. (Mexico.)		<i>Gnathodon</i> Gray.

Jay.—A Catalogue of Recent Shells, with descriptions of new or rare species, in the collection of JOHN C. JAY, M. D. Illustrated by 4 plates. Second edition. New York, 1836: 8vo. pp. 87.

[Vide fourth edition of the same.]

Couthouy.—Description of New Species of Mollusca and Shells found in Massachusetts Bay: by JOSEPH P. COUTHOUY. From the Bost. Journ. Nat. Hist., vol. ii. (*American Journal of Science and Arts*, O. S., vol. xxxiv, No. 1, July, 1838, pp. 216-219.)

Page.		Page.	
216	<i>Tellina sordida</i> Couth.	217	<i>Bulla triticea</i> Couth.
216	<i>Cardium pubescens</i> Couth.	217	<i>Natica consolidata</i> Couth.
216	<i>Nucula myalis</i> Couth.	217	<i>Oxinoe?</i> <i>glabra</i> Couth.
216	<i>tenuisulcata</i> Couth.	217	<i>Jaminia exigua</i> Couth.
216	<i>Terebratula septentrio-</i> <i>nalis</i> Couth.	218	<i>Scalaria subulata</i> Couth.
216	<i>Eolis Bostoniensis</i> Couth.	218	<i>Novangliæ</i> Couth.
217	<i>salmonacea</i> Couth. (<i>Carolina</i> Brug.)	218	<i>Turbo incarnatus</i> Couth.
217	<i>gymnota</i> Couth. (<i>Tergipes</i> Cuv.)	218	<i>cinereus</i> Couth.
217	<i>Tritonia Reynoldsii</i> Couth.	218	<i>obscurus</i> Couth.
217	<i>Chiton fulminatus</i> Couth.	218	<i>Pyramis striatulus</i> Couth.
217	<i>sagrinatus</i> Couth.	218	<i>Turritella erosa</i> Couth.
217	<i>Emersonii</i> Couth.	218	<i>Fleurotoma bicarinata</i> Cou.
217	<i>Patella candida</i> Couth.	218	<i>Cancellaria buccinoides</i> C.
		218	<i>Fusus harpularius</i> Couth.
		218	<i>pleurotomarius</i> Couth.
		219	<i>Trichotropis costellatus</i> C.

Lea.—A Synopsis of the Family of Naiades: by ISAAC LEA. Philadelphia: Carey, Lea & Blanchard, 1836. 8vo. pp. 62. With a plate of *Unio spinosus* Lea.

[Vide third edition.]

Conrad.—Descriptions of New Marine Shells from Upper California, collected by Thomas Nuttall, Esq.: by T. A. CONRAD. (From Journ. Acad. Nat. Sciences, Philadelphia, vol. vii, pt. 2, 1837.)¹

Page.	Pl.	Fig.	Name.	Locality.
24	xx	7	<i>Modiola semicostata</i> <i>Conr.</i>	Salem, Mass.
251			<i>Venus Mortoni</i> <i>Conr.</i>	Charleston, S. C.
259	xx	3	<i>Tellina lintea</i> <i>Conr.</i>	Mobile Point, Ala.
263	xx	26	<i>Scalaria turbinata</i> <i>Conr.</i>	Beaufort, N. C.
265	xx	21	<i>Purpura Floridana</i> <i>Conr.</i>	Florida and Ala.

Naturalist.—Miscellaneous Observations made during a tour in May, 1835, to the Falls of the Cuyahoga, near Lake Erie: extracted from the Diary of a Naturalist. (Am. Journ. Science and Art, O. S., vol. xxxi, No. 1, Jan. 1837, being the date of the title page.)

Page.	Name.	Locality.
35	<i>Lymnæa stagnalis</i> <i>Lam.</i> (with a wood-cut).	Congress Lake.

By name only, the following univalves are quoted from the "Reserve":—

Page.		Page.	
36	<i>Pupa exigua</i> <i>Say.</i>	36	<i>Helix fuliginosa</i> <i>Griff.</i>
36	<i>ovata</i> <i>Say.</i>	36	<i>Pennsylvanica</i> <i>Green.</i>
36	<i>Helix albolabris</i> <i>Say.</i>	36	<i>Succinea ovalis</i> <i>Say.</i>
36	<i>thyroidus</i> <i>Say.</i>	36	<i>avara</i> <i>Say.</i>
36	<i>hirsuta</i> <i>Say.</i>	36	<i>obliqua</i> <i>Say.</i>
36	<i>perspectiva</i> <i>Say.</i>	36	<i>Melania depygis</i> <i>Say.</i>
36	<i>lineata</i> <i>Say.</i>	36	<i>Virginica</i> <i>Say.</i>
36	<i>labyrinthica</i> <i>Say.</i>	36	<i>subularis</i> <i>Lea.</i>
36	<i>multilineata</i> <i>Say.</i>	36	<i>Lymnæa elodes</i> <i>Say.</i>
36	<i>palliat</i> <i>Say.</i>	36	<i>reflexa</i> <i>Say.</i>
36	<i>gularis</i> <i>Say.</i>	36	<i>macrostoma</i> <i>Say.</i>
36	<i>ligera</i> <i>Say.</i>	36	<i>desidiosa</i> <i>Say.</i>
36	<i>solitaria</i> <i>Say.</i>	36	<i>stagnalis</i> <i>Lam.</i>
36	<i>concava</i> <i>Say.</i>	36	<i>Physa heterostropha</i> <i>Say.</i>
36	<i>profunda</i> <i>Say.</i>	36	<i>Paludina ponderosa</i> <i>Say.</i>
36	<i>alternata</i> <i>Say.</i>	36	<i>decisa</i> <i>Say.</i>
36	<i>egena</i> <i>Say.</i>	36	<i>granosa</i> <i>Say.</i>
36	<i>fallax</i> <i>Say.</i>	36	<i>Planorbis bicarinatus</i> <i>Say.</i>
36	<i>tridentata</i> <i>Say.</i>	36	<i>trivolis</i> <i>Say.</i>
36	<i>harpa</i> <i>Say.</i>	36	<i>campanulatus</i> <i>Say.</i>
36	<i>glaphyra</i> <i>Say.</i>	36	<i>armiger</i> <i>Say.</i>
36	<i>inornata</i> <i>Say.</i>	36	<i>exacius</i> <i>Say.</i>

¹ This title gives not the slightest idea of the locality of the species described.

On the same page, *Helix harpa* is said to be an immature *Pupa*, a *Helix glaphyra*, *inornata*, and *fuliginosa* to be the same species.

On page 200, *Dr. Kirtland* is spoken of as author of above. *Helix fuliginosa* and *H. glaphyra* are said to be distinct.

Kirtland.—Report on the Zoology of Ohio: by Prof. J. KIRTLAND, M. D. Cincinnati, Nov. 1, 1838.

[No descriptions are given, but notes on those against which the st are affixed.—W. G. B.]

CLASS V.—TESTACEA.

BIVALVE SHELLS.

Page.	No.		Page.	No.	
170	1	<i>Unio Æsopus Green.</i>	171	32	<i>Unio iris Lea.</i>
170	2	<i>alatus Say.</i>	171	33	<i>irroratus Lea.</i>
170	* 3	<i>anodontoides Lea.</i>	171	*34	<i>Kirtlandianus Lea.</i>
170	4	<i>asperrimus Lea.</i>	171	35	<i>lævissimus Lea.</i>
170	5	<i>brevicens Lea.</i>	171	36	<i>lacrymosus Lea.</i>
170	* 6	<i>camelus Lea.</i>	171	37	<i>lens Lea.</i>
170	7	<i>capsæforinus Lea.</i>	171	38	<i>luteolus Lam.</i>
171	8	<i>clavus Lam.</i>	171	39	<i>metanevrus Raf.</i>
171	9	<i>circulus Lea.</i>	171	40	<i>multiradiatus Lea.</i>
171	10	<i>coccineus Hildreth.</i>	171	*41	<i>multiplicatus Lea.</i>
171	11	<i>compressus Lea.</i>	171	42	<i>mytiloides Raf.</i>
171	*12	<i>Cooperianus Lea.</i>	171	43	<i>monodontus Say.</i>
171	13	<i>cornutus Barnes.</i>	171	44	<i>nasutus Say.</i>
171	14	<i>crassidens Lam.</i>	171	45	<i>obliquus Lam.</i>
171	*15	<i>crassus Say.</i>	171	*46	<i>occidens Lea.</i>
171	16	<i>cylindricus Say.</i>	171	*47	<i>orbiculatus Hild.</i>
171	*17	<i>declivis Say.</i>	171	48	<i>ovatus Say.</i>
171	18	<i>dehiscens Say.</i>	171	49	<i>parvus Barnes.</i>
171	*19	<i>donaciformis Lea.</i>	171	50	<i>patulus Lea.</i>
171	20	<i>Dorfeullianus Lea.</i>	171	*51	<i>perplexus Lea.</i>
171	21	<i>ebenus Lea.</i>	171	*52	<i>personatus Say.</i>
171	22	<i>elegans Lea.</i>	171	53	<i>phaseolus Hild.</i>
171	23	<i>ellipsia Lea.</i>	171	54	<i>pileus Lea.</i>
171	24	<i>fabalis Lea.</i>	171	*55	<i>plicatus Say.</i>
171	25	<i>foliatus Hild.</i>	171	56	<i>pustulatus Lea.</i>
171	26	<i>fragosus Contr.</i>	171	57	<i>pustulosus Lea.</i>
171	27	<i>gibbosus Barnes.</i>	171	58	<i>pyramidatus Lea.</i>
171	28	<i>glans Lea.</i>	171	59	<i>Rangianus Lea.</i>
171	29	<i>gracilis Barnes.</i>	171	60	<i>rectus Lam.</i>
171	30	<i>graniferus Lea.</i>	171	61	<i>retusus Lam.</i>
171	31	<i>Hildrethianus Lea.</i>	172	62	<i>rubiginosus Lea.</i>

Page.	No.		Page.	No.	
		Unio —			Margaritana—
172	*63	<i>Schoolcraftensis</i> Lea.	172.	*79	<i>calceola</i> Lea.
172	64	<i>securis</i> Lea.	172	80	<i>complanata</i> Lea.
172	65	<i>solidus</i> Lea.	172	81	<i>marginata</i> Lea.
172	66	<i>subovatus</i> Lea.	172	*82	<i>rugosa</i> Lea.
172	67	<i>subrotundus</i> Lea.			Anodonta—
172	68	<i>sulcatus</i> Lea.	172	83	<i>Buchanensis</i> Lea.
172	69	<i>tenuissimus</i> Lea.	172	84	<i>decora</i> Lea.
172	70	<i>triangularis</i> Barnes.	172	85	<i>edentula</i> Lea.
172	71	<i>trigonus</i> Lea.	172	86	<i>Ferrussaciana</i> Lea.
172	72	<i>tuberculatus</i> Barnes.	172	87	<i>imbecilis</i> Say.
172	73	<i>undulatus</i> Barnes.	172	88	<i>ovata</i> Lea.
172	74	<i>varicosus</i> Lea.	172	89	<i>pavonia</i> Lea.
172	75	<i>ventricosus</i> Barnes.	172	90	<i>Pépiniana</i> Lea.
172	76	<i>venustus</i> Lea.	172	91	<i>plana</i> Lea.
172	77	<i>verrucosus</i> Barnes.	172	92	<i>salmonia</i> Lea.
172	78	<i>zigzag</i> Lea.	172	93	<i>Wardiana</i> Lea.

UNIVALVE SHELLS.

172	94	<i>Ancylus rivularis</i> Say.	173	120	<i>Helix obstricta</i> Say.
172	95	<i>Helix albolabris</i> Say.	173	121	<i>palliat</i> Say.
172	96	<i>alternata</i> Say.	173	122	<i>Pennsylvanica</i> Gr.
172	97	<i>appressa</i> Say.	173	123	<i>perspectiva</i> Say.
172	98	<i>arboreus</i> Say.	173	124	<i>profunda</i> Say.
172	99	<i>clausa</i> Say.	173	125	<i>solitaria</i> Say.
173	100	<i>concava</i> Say.	173	126	<i>tridentata</i> Say.
173	*101	<i>diodonta</i> Say.	173	127	<i>Wardiana</i> Lea.
173	102	<i>elevata</i> Say.	173	128	<i>zaleta</i> Lea.
173	103	<i>fallax</i> Say.			Polygyra —
173	104	<i>fraterna</i> Say.	173	129	<i>Dorfeuilliana</i> Lea.
173	105	<i>fuliginosus</i> Griffith.	173	*130	<i>Heleciana</i> .
173	106	<i>glaphyra</i> Say.	173	131	<i>Pupa armifera</i> Say.
173	107	<i>gularis</i> Say.	173	*132	<i>exigua</i> Say.
173	108	<i>harpa</i> Say.	173	133	<i>ovata</i> Say.
173	109	<i>hirsuta</i> Say.	173	134	<i>Succinea avara</i> Say.
173	110	<i>indentata</i> Say.	173	135	<i>ovalis</i> Say.
173	111	<i>inflecta</i> Say.	173	136	<i>retusa</i> Lea.
173	112	<i>inornata</i> Say.	173	137	<i>vermetus</i> Say.
173	113	<i>interna</i> Say.			Cyclostoma—
173	114	<i>labyrinthica</i> Say.	174	138	<i>lapidaria</i> Say.
173	115	<i>ligera</i> Say.	174	139	<i>marginalis</i> Say.
173	116	<i>lineata</i> Say.			Planorbis—
173	117	<i>minuta</i> Say.	174	140	<i>armigerus</i> Say.
173	118	<i>Mitchella</i> Lea.	174	141	<i>bicarinata</i> Say.
173	*119	<i>multilineata</i> Say.	174	142	<i>campanulata</i> Say.

Page. No.

Planorbis—

- 174 143 *exacuous Say.*
 174 144 *lens Lea.*
 174 *145 *parvus Say.*
 174 146 *trivolis Say.*
 174 147 *Physa elliptica Lea.*
 174 *148 *elongata Say.*
 174 149 *heterostropha Say.*
 174 *150 *Sayii Tappan.*

Lymneus—

- 174 *151 *catascopiuss Say.*
 174 152 *decidiosus Say.*
 174 153 *elodes Say.*
 174 154 *exilis Lea.*
 174 155 *reflexus Say.*
 174 *156 *stagnalis Lam.*

Page. No.

Lymneus—

- 174 157 *umbrosus Say.*
 174 158 *Melania caniculata Say.*
 174 159 *conica Say.*
 174 160 *depygis Say.*
 174 *161 *isogonica Say.*
 174 162 *Sayii Wood.*
 174 *163 *Anculosa prærosa Say.*
 174 *164 *Valvata sincera Say.*
 174 *165 *tricarinata Say.*
 174 166 *Paludina decisa Say.*
 174 *167 *granosa Say.*
 175 *168 *heterostropha Kirtl.*
 175 *169 *microstoma Kirtl.*
 200 170 *ponderosa Say.*

Sager.—Report of Dr. ABM. SAGER, Zoologist of the Geological Survey [of Michigan]. Detroit, Jan. 12, 1839. [Without descriptions.]

MOLLUSCA.**CLASS CONCHIFERA.****Section Lamellipoda.**

Page.

- 13 *Cyclas similis Say.*

Page.

- 13 *Cyclas dubiosa Say.*

NAIADAE. FRESH WATER BIVALVES.

- 13 *Unio plicatus Say.*

- 13 *alatus Say.*
 13 *purpureus Say.*
 13 *fasciolaris Raf.*
 13 *undulatus Barnes.*
 13 *multiradiatus Lea.*
 13 *circulus Lea.*
 13 *penitus Contr.*
 13 *lapillus Say.*
 13 *compressus Lea.*
 13 *triangularis Barnes.*
 13 *cariosus Say.*
 13 *fragilis Raf.*
 13 *subrotundus Lea.*
 13 *coelatus Contr.*
 13 *iris Lea.*

- 13 *Unio Hildrethianus Lea.*

- 13 *siliquoides Barnes.*
 13 *nasutus Say.*
 13 *rectus Lam.*
 13 *dilatatus Raf.*
 13 *tuberculatus Raf.*
 13 *bullatus Raf.*
 13 *olivarius Raf.*
 13 *rubiginosus Lea.*
 13 *gibbosus Raf.*
 13 *ventricosus Barnes.*
 13 *Anodonta Ferussaciana Lea.*
 13 *cataracta Say.*
 13 *Alasmodontamarginata Say.*
 13 *undulata Say.*
 13 *edentula Say.*

CLASS MOLLUSCA.

Order Gasteropoda.

Page.

14 *Patella*.

PHYLLIDIANA.

Order Trachelipoda.

COLIMACHA.

Page.		Page.	
14	<i>Helix solitaria Say.</i>	14	<i>Helix ligera Say.</i>
14	<i>albolabris Say.</i>	14	<i>fuliginosa Say.</i>
14	<i>zeleta Say.</i>	14	<i>concava Say.</i>
14	<i>multilineata Say.</i>	14	<i>profunda Say.</i>
14	<i>clausa Say.</i>	14	<i>alternata Say.</i>
14	<i>fraterna Say.</i>	14	<i>tridentata Say.</i>
14	<i>fallax Say.</i>	14	<i>inornata Say.</i>
14	<i>hirsuta Say.</i>	14	<i>elevata Say.</i>
14	<i>perspectiva Say.</i>	14	<i>arboreus Say.</i>
14	<i>palliata Say.</i>	14	<i>Pupa ovata Say.</i>
14	<i>inflecta Say.</i>	14	<i>Succinea ovalis Say.</i>
14	<i>thyroidus Say.</i>	14	<i>campestris Say.</i>
14	<i>fraterna Say.</i>		

LYMNEANA.

14	<i>Planorbis trivolvis Say.</i>	15	<i>Physa elongata Say.</i>
14	<i>exacrus Say.</i>	15	<i>Lymneus columellus Say.</i>
14	<i>campanulatus Say.</i>	15	<i>elodes Say.</i>
14	<i>bicarinatus Say.</i>	15	<i>desidiosus Say.</i>
14	<i>Physa heterostropha Say.</i>	15	<i>stagnalis.</i>

MELANIANA.

15	<i>Melania Virginica Say.</i>	15	<i>Melania depygis Say.</i>
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PERISTOMIANA.

15	<i>Valvata tricarinata Say.</i>	15	<i>Paludina decisa Say.</i>
15	<i>sincera Say.</i>	15	<i>ponderosa Say.</i>

De Kay.—Catalogue of the Animals belonging to the State of New York, as far as they have been figured and described: by J. E. DE KAY. Assembly No. 50. Jan. 1, 1839. (No descriptions.)

MOLLUSCA.

Page.		Page.	
12	<i>Loligo punctata.</i>	12	<i>Helix monodon.</i>
12	<i>Helix thyroidus.</i>	12	<i>hirsuta.</i>
12	<i>albolabris.</i>	12	<i>tridentata.</i>

Page.		Page.	
12	<i>Helix alternata.</i>	12	<i>Alasmodonta undulata.</i>
12	<i>Limneus.</i>	12	<i>Unio purpureus.</i>
12	<i>Melampus bidentatus.</i>	12	<i>cariosus.</i>
12	<i>Turbo rudis.</i>	12	<i>ochraceus</i> and var.
12	<i>palliatu8.</i>	12	<i>Cardita borealis.</i>
12	<i>irroratus.</i>	12	<i>Cardium Mortoni.</i>
12	<i>neretoides.</i>	12	<i>pinnatulum.</i>
12	<i>Scalaria lineata.</i>	12	<i>Donax fossor.</i>
12	<i>Paludina disscisa.</i>	12	<i>Astarte castanea.</i>
12	<i>Natica heros.</i>	12	<i>Venus gemma.</i>
12	<i>duplicata.</i>	12	<i>mercenaria.</i>
12	<i>Crepidula fornicata.</i>	12	<i>notata.</i>
12	<i>plana.</i>	12	<i>Cytherea convexa.</i>
12	<i>Nassa trivittata.</i>	12	<i>Petricola pholadiformis.</i>
12	<i>obsoleta.</i>	12	<i>Macra lateralis.</i>
12	<i>Columbella avara.</i>	12	<i>solidissima.</i>
12	<i>Ranella caudata.</i>	12	<i>Mya arenaria.</i>
12	<i>Fusus cinereus.</i>	12	<i>Lyonsia hyalina.</i>
12	<i>Chiton inermis.</i>	12	<i>Anatina dubia.</i>
12	<i>Anomia ephippium.</i>	12	<i>Solemya velum.</i>
12	<i>Arca pexata.</i>	12	<i>Pandora trilineata.</i>
12	<i>transversa.</i>	12	<i>Solecuretus caribeus.</i>
12	<i>Modiolus papuanus.</i>	12	<i>costatus.</i>
12	<i>demissus.</i>	12	<i>Sanguinolaria fusca.</i>

De Kay.—(Same as last. Dec. 1839.)

CLASS V. **MOLLUSCA.**

Order I. **Cephalopoda.**

Page.		Page.	
31	<i>Loligo punctata</i> , n. sp.	31	<i>Loligo Pealeii.</i>

Order II. **Pteropoda.**

31	<i>Clio borealis.</i>
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Order III. **Gasteropoda.**

† **PULMONEA.**

31	<i>Limax lineatus</i> , n. sp.	31	<i>Helix palliata.</i>
31	<i>marmoratus</i> , n. sp.	31	<i>minuta.</i>
31	<i>Helix thyroideus.</i>	31	<i>hirsuta.</i>
31	<i>albolabris.</i>	31	<i>clausa.</i>
31	<i>tride-</i>	31	<i>perspectiva.</i>
31			<i>elevata.</i>

Page.		Page.	
31	Helix <i>zaleta</i> .	31	Auricula <i>borealis</i> .
31	<i>dentifera</i> .	31	Planorbis <i>trivolvus</i> .
31	<i>subglobosa</i> .	31	<i>bicarinatus</i> .
31	<i>scabra</i> .	31	<i>campanulatus</i> .
31	<i>arborea</i> .	31	<i>parvus</i> .
31	<i>glaphyra</i> .	31	<i>exacuus</i> .
31	<i>lineata</i> .	32	<i>armigerus</i> .
31	<i>fallax</i> .	32	<i>megastoma</i> , n. sp.
31	<i>fraterna</i> .	32	<i>niger</i> n. sp.
31	<i>diodonta</i> .	32	Lymnea <i>catascopium</i> .
31	<i>inornata</i> .	32	<i>desidiosa</i> .
31	<i>indentata</i> .	32	<i>macrostoma</i> .
31	<i>gularis</i> .	32	<i>reticulata</i> n. sp.
31	<i>ligera</i> .	32	<i>reflexa</i> .
31	<i>concava</i> .	32	<i>appressa</i> .
31	<i>profunda</i> .	32	<i>elodes</i> .
31	Pupa <i>corticaria</i> .	32	<i>humilis</i> .
31	<i>exigua</i> .	32	<i>pinguis</i> .
31	<i>pentodon</i> .	32	<i>nigrescens</i> , n. sp.
31	<i>ovata</i> .	32	<i>modicellus</i> .
31	Succinea <i>obliqua</i> .	32	<i>gracilis</i> , n. sp.
31	<i>putris</i> .	32	Physa <i>heterostrophæ</i> .
31	<i>lineata</i> , n. sp.	32	<i>ancillaria</i> .
31	<i>ovalis</i> .	32	<i>fragilis</i> n. sp.
31	Auricula <i>cornea</i> .	32	<i>elliptica</i> .
31	<i>lineata</i> .		

†† NUDIBRANCHIATA.

32	Doris .	32	Cavolina <i>salmonacea</i> .
32	Tritonia <i>Reynoldsi</i> .	32	Tergipes <i>gymnota</i> .
32	Eolis <i>bostoniensis</i> .		

††† INFEROBRANCHIATA, not observed.

†††† TECTIBRANCHIATA.

32	Bulla <i>fluviatilis</i> .	32	Bulla <i>oryza</i> .
32	<i>insculpta</i> .	32	<i>triticea</i> .

††††† HETEROPODA, not observed.

†††††† PECTINIBRANCHIATA.

32	Turbo <i>obligatus</i> .	32	Turbo <i>minutus</i> .
32	<i>irroratus</i> .	32	<i>cinereus</i> .
32	<i>vestitus</i> .	32	<i>multilineatus</i> n. sp.
32	<i>palliatus</i> .	32	Lacuna <i>fusca</i> .
32	<i>inflatus</i> .	32	Pleurotoma <i>bicarinata</i> .
32	<i>incarnatus</i> .	32	Turritella <i>interrupta</i> .

Page.		Page.	
32	<i>Scalaria subulata.</i>	32	<i>Galericulum.</i>
32	<i>Valvata tricarinata.</i>	32	<i>Calyptrea.</i>
32	<i>sincera.</i>	32	<i>Sigaretus glaber.</i>
32	<i>Paludina dissoisa.</i>	32	<i>Velutina rupicola.</i>
32	<i>porata.</i>	32	<i>Cryptostoma.</i>
32	<i>lustrica.</i>	32	<i>Marginella carnea.</i>
32	<i>heros n. sp.</i>	32	<i>Trichotropis.</i>
32	<i>Ampullaria paludosa.</i>	32	<i>Cancellaria leonthocy.</i>
32	<i>Melania multilineata.</i>	32	<i>Buccinum undatum.</i>
32	<i>Lamina trifida.</i>	32	<i>Nassa obsoleta.</i>
32	<i>exigua.</i>	32	<i>trivittata.</i>
32	<i>Natica duplicata.</i>	32	<i>Purpura lapillus.</i>
32	<i>heros.</i>	32	<i>imbricata.</i>
32	<i>triseriata.</i>	33	<i>bizonalis.</i>
32	<i>pusilla.</i>	33	<i>Pasithea nigra.</i>
32	<i>consolidata.</i>	33	<i>Ranella caudata.</i>
32	<i>immaculata.</i>	33	<i>Fusus corneus.</i>
32	<i>Crepidula glauca.</i>	33	<i>cinereus.</i>
32	<i>fornicata.</i>	33	<i>decemcostatus.</i>
32	<i>plana.</i>	33	<i>Fulgur canaliculatus.</i>
32	<i>convexa.</i>		

++++ SCUTIBRANCHIATA.

- 33 *Fissurella greca.*

++++ CYCLOBRANCHIATA.

33	<i>Patella alveus.</i>	33	<i>Chiton pectinatus.</i>
33	<i>candida.</i>	33	<i>fulminatus.</i>
33	<i>amcena.</i>	33	<i>sagrinatus.</i>
33	<i>Ancylus rivularis.</i>		

Order IV. *Acephala.*

† TESTACEA.

33	<i>Ostrea borealis.</i>	33	<i>Modiola papuana.</i>
33	<i>Virginica.</i>	33	<i>glandula.</i>
33	<i>Pecten concentricus.</i>	33	<i>Anodonta cataracta.</i>
33	<i>Anomia ephippium.</i>	33	<i>marginata.</i>
33	<i>Arca pexata.</i>	33	<i>Pennsylvanica.</i>
33	<i>transversa.</i>	33	<i>plana.</i>
33	<i>incongrua.</i>	33	<i>benedictensis.</i>
33	<i>Nucula semisulcata.</i>	33	<i>fragilis.</i>
33	<i>myalis.</i>	33	<i>subcylindracea.</i>
33	<i>Mytilus edulis.</i>	33	<i>edentula.</i>
33	<i>cubitus.</i>	33	<i>Ferussaciana.</i>
33	<i>striatus.</i>	33	<i>Alasmodonta rugosa.</i>

Page.		Page.	
33	<i>Alasmodonta undulata.</i>	33	<i>Venus preopaca.</i>
33	marginata.	33	inequalis.
33	arcuata.	33	gemma.
33	<i>Unio complanatus.</i>	33	<i>Astarte castanea.</i>
33	radiatus.	34	daumoniensis.
33	occidens.	34	<i>Cytherea convexa.</i>
33	luteolus.	34	<i>Petricola pholadiformis.</i>
33	compressus.	34	<i>Corbula.</i>
33	nasutus.	34	<i>Mactra solidissima.</i>
33	ochraceus.	34	subtriangularis.
33	cariosus.	34	lateralis.
33	novi-eboraci.	34	tellinoides.
33	heterodon.	34	nucleus.
33	crassus.	34	<i>Amphidesma corbuloides.</i>
33	gracilis.	34	<i>Mya arenaria.</i>
33	<i>Cardita borealis.</i>	34	<i>Lutraria.</i>
33	<i>Cardium Mortoni.</i>	34	<i>Anatina pretensis.</i>
33	pinnatulum.	34	papyratia.
33	pubescens.	34	<i>Solemya velum.</i>
33	grænlanticum.	34	borealis.
33	<i>Donax fossor.</i>	34	<i>Glycimeris siliqua.</i>
33	<i>Cyclas similis.</i>	34	<i>Pandora trilineata.</i>
33	dubia.	34	<i>Saxicava distorta.</i>
33	partumeia.	34	<i>Solen ensis.</i>
33	rhomboida.	34	viridis.
33	<i>Cyprina islandica.</i>	34	<i>Solecurtus costatus.</i>
33	<i>Tellina tenera.</i>	34	fragilis.
33	sordida.	34	caribæus.
33	lateralis.	34	<i>Sanguinolaria fusca.</i>
33	versicolor.	34	<i>Pholus crispata.</i>
33	<i>Venus mercenaria.</i>	34	lamellata.
33	notata.	34	<i>Teredo navalis.</i>

†† NUDA.

34	<i>Ascidea rustica.</i>	34	<i>Ascidea ovalis.</i>
34	pedunculata.	34	<i>Botryllus stellatus.</i>
34	plicata.	34	<i>Polyclinum.</i>

Order V. **Brachiopoda.**

- 34 *Terebratula septentrionalis.*

Russell.—Familiar Notice of some of the Shells found in the limits of Essex County, Massachusetts, with reference to descriptions and figures: by JOHN LEWIS RUSSELL. (From Journal of the Essex Co. Natural History Society, June, 1839.)

[With notes, descriptive and geographical.]

Page.		Page.	
49	<i>Teredo navalis.</i>	60	<i>Anodonta implicata Say.</i>
50	<i>Pholas crispata.</i>	61	<i>Modiola papuana Lam.</i>
50	<i>lamellata Turton.</i>	61	<i>plicatula Lam.</i>
51	<i>Solen ensis.</i>	61	<i>Mytilus edulis.</i>
51	<i>Solecurtus costatus Say.</i>	62	<i>pellucidus.</i>
	<i>Solen costatus Say.</i>	62	<i>Pecten Magellanicus.</i>
51	<i>Glycimeris siliqua.</i>	62	<i>Anomia ephippium L.</i>
51	<i>Mya mercenaria.</i>	63	<i>Terebratula septentrionalis</i>
52	<i>Anatina Leana.</i>		<i>Couth.</i>
52	<i>Macra gigantea.</i>	63	<i>Chiton fulminatus Couth.</i>
	<i>M. solidissima Say.</i>	64	<i>Patella alveus Contr.</i>
53	<i>arctata Contr.</i>		<i>Patelloidea Guimard.</i>
53	<i>tellinoides Contr.</i>	64	<i>amœna Say.</i>
53	<i>Solemya velum.</i>		<i>Patelloidea Guimard.</i>
54	<i>Sanguinolaria fusca Contr.</i>	64	<i>Crepidula fornicata.</i>
54	<i>Pandora trilineata Say.</i>	65	<i>plana Say.</i>
54	<i>Saxicava distorta Say.</i>	65	<i>Ancylus rivularis Say.</i>
55	<i>Petricola fornicata.</i>	66	<i>Velutina rupicola.</i>
	<i>P. pholadiformis Lam.</i>		<i>Orynoë glabra Couth.?</i>
56	<i>Tellina polita.</i>	67	<i>Natica heros Say.</i>
56	<i>tenera Say.</i>	67	<i>triseriata.</i>
56	<i>sordida Couth.</i>	67	<i>consolidata Couth.</i>
57	<i>Astarte castanea Say.</i>	67	<i>Melampus bidentatus Mont.</i>
	<i>Crassina Lam.</i>	68	<i>Lacuna pertusa Contr.</i>
	<i>Venus castanea Say.</i>	68	<i>Nassa obsoleta Say.</i>
57	<i>Cyprina Islandica Lam.</i>	68	<i>trivittata.</i>
58	<i>Venus mercenaria.</i>	69	<i>Trichotropis costellatus.</i>
58	<i>gemma Tott.</i>	69	<i>Buccinum undatum.</i>
58	<i>Cardium pinnulatum Contr.</i>	69	<i>Purpura lapillus.</i>
58	<i>Nucula limatula Say.</i>		<i>Buccinum lapillus Lin.</i>
58	<i>tenuisulcata Couth.</i>	70	<i>imbricata Lam.</i>
59	<i>myalis Couth.</i>	70	<i>Fusus decemcostatus Say.</i>
59	<i>Unio complanatus Lea.</i>	70	<i>corneus Say.</i>
	<i>U. purpureus.</i>	71	<i>cinereus Say.</i>
60	<i>radiatus Say.</i>	71	<i>harpularius Couth.</i>
60	<i>nasutus Say.</i>	71	<i>Turritella erosa Couth.</i>
60	<i>ta.</i>	72	<i>Turbo palliatus Say.</i>

Page.		Page.	
72	<i>Turbo vestita</i> Say.	74	<i>Rostellaria occidentalis</i>
72	<i>obligatus</i> Say.		<i>Gnérin.</i>
73	<i>inflatus</i> Tott.	74	<i>Pyramis striatulus</i> Couth.
73	<i>minutus</i> Tott.	75	<i>Modiola discrepans</i> Mont.
73	<i>incarnatus</i> Couth.	75	<i>Thracia Conradi.</i>
73	<i>cinereus</i> Couth.	75	<i>Bulla triticea</i> Couth.
74	<i>obscurus</i> Couth.	75	<i>Scalaria subulata</i> Couth.
74	<i>Cancellaria buccinoides</i> Cou.	76	<i>Solemya borealis</i> To ten.

Conrad.—Observations on the Genus *Gnathodon*, with description of a New Species: by T. A. CONRAD. (From Am. Journ. Sci. and Art, O. S., vol. xxxviii, No. 1, Oct.-Dec., 1839.)

Page.	Name.	Locality.
92	<i>Gnathodon cuneata.</i>	Gulf of Mexico.
92	<i>Grayi</i> (fossil).	Yorktown, Va.
92	<i>flexuosa</i> Contr. (with a figure).	Florida.

Adams.—Description of Shells: by Prof. C. B. ADAMS. (From same, vol. xxxix, No. 2, 1840.)

Page.	Name.	Locality.
373	<i>Cerithium terebrale</i> Adams.	New Bedford.
374	<i>Planorbis virens</i> Adams.	New Bedford.
374	<i>Limnæa acuminata</i> Adams.	New Bedford & Woburn, Mass.
374	<i>umbilicata</i> Adams.	New Bedford.
374	<i>pallida</i> Adams.	Shoreham, Vt.
375	<i>Cyclas elegans</i> Adams.	

Adams.—Shells of Fresh Pond: by Prof. C. B. ADAMS. (From same, vol. xxxvi, No. 2, 1839. No descriptions.)

Page.		Page.	
392	<i>Unio nasutus.</i>	392	<i>Valvata tricarinata.</i>
392	<i>complanatus.</i>	392	<i>Succinea ovalis.</i>
392	<i>radiatus.</i>	392	<i>Lymnea heterostropha.</i>
392	<i>Anodonta implicata.</i>	392	<i>columellaris.</i>
392	<i>Cyclas similis.</i>	392	<i>catascopium.</i>
392	<i>Planorbis trivolvus.</i>	392	<i>Physa heterostropha.</i>
392	<i>bicarinatus.</i>	392	<i>Paludina decisa.</i>
392	<i>deflectus?</i>	392	<i>lustrica?</i>
392	<i>hirsutus</i> , n. s. (descrip.)		
392	<i>Anodonta cataracta</i> = <i>A. implicata.</i>		

Tappan.—Description of some New Shells: by BENJ. TAPPAN, Steubenville, Ohio. (In Am. Journal Science, O. S., vol. xxxv, No. 2. Date of title-page, Jan. 1839.)

Page.	Pl.	Fig.	Name.	Locality.
238	iii	1	Unio Sayii Ward.	Circleville.
269	iii	2	Paludina heterostropha Kirtland.	Mahoning river.
269	iii	3	Physa Sayii Tappan.	Lake Pepin, Ohio.

Jay.—A Catalogue of the Shells, arranged according to the Lamarekian System: together with descriptions of new or rare species contained in the collection of JOHN C. JAY, M. D. Illustrated by several plates. 3d edition, 4to. pp. 126. New York, 1839.

[Vide the fourth edition. The following species are described]:—

Page.	Pl.	Fig.	Name.	Locality.
112	i	8, 9	Paludina scalaris Jay.	Everglades of Florida.
112	i	10, 11	Lymnæa gracilis Jay.	Essex County, N. Y.
113	i	17, 18	Trichotropis costulatus Couth.	Massachusetts Bay.
	iii	7	Ampullaria scalaris Orb.	Mexico.
	v	1, 2	Unio spinosus Lea.	Altamaha river.
122	vii	11	Melania læta Jay.	Alabama.

Couthouy.—Monograph of Osteodesmacea, &c.: by J. P. COUTHOUY. (From Am. Journ. Sci. and Art, O. S., vol. xxxvi, April–July, 1839.) Descriptions of the following American species:—

Page.	Name.	Locality.
383	Thracia Conradi Couth. <i>T. declivis</i> Conrad, non Pennant. <i>Anatina convexa</i> Hitchcock's Rep. <i>Thracia corbuloides</i> Kiener.	New England.
384	Osteodesma hyalina Couth. <i>Mya hyalina</i> Conrad. <i>Amphidesma corbuloides</i> Hitchcock's Rep.	
385	Eolis diversa Couth.	Massachusetts Bay.
385	Cochleodesma Couth. (n. g.) ex. <i>Anatina Leana</i> Conr.	
389	Nucula navicularis Couth.	Massachusetts Bay.
389	Bulla lineolata Couth.	Massachusetts Bay.

Page.	Name.	Locality.
390	<i>Bulla hiemalis</i> Couth.	Massachusetts Bay.
390	<i>Gouldii</i> Couth.	Massachusetts Bay.
390	<i>Pleurotoma decussata</i> Couth.	Massachusetts Bay.
390	<i>Anculotus dentatus</i> Couth.	Potomac, Va.

C. B. Adams —(From same.) Notes on the following shells, and descriptions of new species:—

Page	Name.	Locality.
387	<i>Columbella avara</i> Say.	Massachusetts.
387	<i>Buccinum vibex</i> Say. (<i>Nassa</i> .)	Massachusetts.
387	<i>trivittatum</i> Say. (<i>Nassa</i> .)	Massachusetts.
387	<i>obsoletum</i> Say. (<i>Nassa</i> .)	Massachusetts.
388	<i>Purpura lapillus</i> L.	Massachusetts.
388	<i>Fusus cinereus</i> Say.	Massachusetts.
388	<i>Ranella caudata</i> Say.	Massachusetts.
388	<i>Jaminia seminuda</i> Adams.	Dartmouth.
388	<i>Pyramis fusca</i> Adams.	New Bedford.
388	<i>Cerithium Emersonii</i> Adams.	New Bedford, &c.
388	<i>nigrocinctum</i> Adams.	Dartmouth.

A. A. Gould, M. D.—(From same, vol. xxxvii, July–October, 1839.)

Page.	Name.	Locality.
392	<i>Helix aspersa</i> Mull.	Portland, Maine.

Haldeman.—A Monograph of the Limniades and other freshwater Univalve Shells of North America: by S. STEHMAN HALDEMAN, Member Phila. Acad. Nat. Sci., Philadelphia.

No. I.—July, 1840.

Pa.	Pl.	Fig.	Name.	Locality.
4	i		<i>Paludina decisa</i> Say.	Ohio riv., N.J. streams;
			<i>P. heterostropha</i> Kirtland.	Del., Schuylkill, Sus-
			<i>limosa</i> Val.	quehanna rivs.; New
			<i>cornea</i> Val.?	Engl., O.; Fox, Nola-
			<i>ponderosa</i> , jun. Desh.?	chucky, Tenn. rivs.;
				N. W. Terr.
8	ii		<i>subcarinata</i> Say.	Ohio, Del., Schuylkill,
			<i>Helix decisa</i> Wood.	and Susq. rivers.
			<i>P. carinata</i> Val. (removed in errata).	

Pa.	Pl.	Fig.	Name.	Locality.
10	iii		Paludina integra Say.	S. C., O., Miss. r. in Ia.
13	iv		ponderosa Say.	O., Ind., Ill., Tenn., Ala.
15	v		genicula Conr.	Flint river, Ga.
4	of cover		Anculosa littorina Hald.	Holston river, Va.
4	"		Cerithium (Potamis) Californicum Hald.	California.
4	"		Cyclas elevata Hald.	New Orleans.
4	"		Genus Discus (Planorbis armigerus).	

No. II.—January, 1841.

17	vi		Paludina vivipara Lin.	Fla., Ala., Ind., Mo.,
			<i>P. lineata</i> Val.	Mich., Cuba.
23	vii	1-2	Georgiana Lea.	Hopeton, Ga.
24	vii	3, 4	Bengalensis Lam.	Florida.
			<i>P. fasciata</i> Bowd.	
			<i>elongata</i> Swains.	
			<i>multilineata</i> Say.	
26	viii		carinata Vul.	Mexico.
28	ix		subpurpurea Say.	Wabash, S. Louis, Wis.
31	x	1-6	intertexta Say.	New Orleans; S. C.
			<i>P. transversa</i> Say.	
3	of cover		Melania rufula Hald.	Lake Pepin.
3	"		Physa fontana Hald.	Pennsylvania.
3	"		Ancylus parallelus Hald.	Vermont.
3	"		Subgenus Angitrema (Ex. Melania armigera Say.)	
3	"		Melania costifera Hald.	Illinois.
3	"		<i>Helix dissimilis</i> Wood = Pal. decisa .	
3	"		Pal. decisa .	N. Y., Va., N. C.
3	"		<i>Helix decisa</i> Wood = Pal. subcarinata .	
3	"		Pal. subcarinata .	Tennessee.

No. III.—July, 1841.

Subgenera of **LIMNEA**.

5			Limnea Lam.	
5			Radix Mont.	
6			Laptolimnea Swainson.	
6			Bulimnea Hald.	
6			Acella Hald.	
6	i		Limnea catascopium Say.	Mass., N. York, N. W.
			<i>L. pinguis</i> Say?	Terr., Canada, Dela-
			<i>cornea</i> Val.	ware and Schuylkill
			<i>Virginiana</i> Lam.?	rivers, Oregon.
10	ii		emarginata Say.	N. W. Terr., Maine.
10			serrata Hald. (n. sp.?)	

Pl.	Fig.	Name.	Locality.
13	iii 1-3	<i>Limnea megasoma</i> Say.	N. W. Terr., Vermont.
15	iii 4-5	<i>rugosa</i> Val.	Mexico.
16	iv	<i>jugularis</i> Say.	N. York, Mich., N. W.
		<i>L. speciosus</i> Rossm.	Terr., Oregon.
		<i>stagnalis</i> (Sill. Journ.)	
3	of cover	<i>Paludina rufa</i> Hald. (pl. iii, fig. 1.)	
3	"	<i>Anculosa fusca</i> Hald.	Oregon.
3	"	<i>Ancylus</i> (<i>Velletea</i>) <i>Nuttalli</i> Hald.	Oregon.
3	"	<i>diaphanus</i> Hald.	Ohio.
3	"	<i>Limnæa ferruginea</i> Hald.	Oregon.
3	"	<i>Physa</i> (<i>Diastrophæ</i>) <i>integra</i> Hald.	Indiana.
3	"	<i>Melania varicosa</i> Wurd.	Ohio.
		<i>M. rufula</i> Hald. (var.?)	
3	"	<i>Bullimus vermetus</i> Anthony.	Ohio.
3	"	<i>Melania inflata</i> Hald.	Alabama river.
3	"	<i>curta</i> Hald.	Ohio river.
3	"	<i>Physa concolor</i> Hald.	Oregon.
3	"	<i>Anculosa</i> (<i>Mudalia</i>) <i>affinis</i> Hald.	Ohio.
4	"	<i>Paludina vitula</i> Raf. = <i>P. Bengalensis</i> .	
4	"	<i>Physa osculans</i> = <i>heterostrophæ</i> ?	

No. IV.—January, 1842.

18	v	<i>Limnea appressa</i> Say.	Lake Superior to New
		<i>L. speciosus</i> Ziegl.	England.
20	vi	<i>fragilis</i> Lin.	N. W. Terr., Can., Me.,
		<i>L. elodes</i> Say.	Mass., N. Y., L. Erie,
		<i>palustris</i> Sowb.	Ohio, Pa., Oregon.
24	vii	<i>umbrosa</i> Say.	Mo., N. Y., Ohio, Ind.,
		<i>L. elongatus</i> Say.	Ill., Upper Canada.
26	viii	<i>reflexa</i> Say.	Ohio, Ind., Ill., N. Y.,
		<i>L. palustris</i> var. <i>distortus</i> Rossm.	Lakes Erie and Sup.
		<i>exilis</i> Lea.	
28	ix 1-5	<i>attenuata</i> Say.	Mexico.
29	ix 6-8	<i>expansa</i> Hald.	Vermont.
31	x	<i>desidiosa</i> Say.	New England to Miss.
		<i>L. obrussa</i> Say?	river; lat. 35° to 45°.
		<i>acuta</i> Lea.	
		<i>Philadelphica</i> Lea.	
3	of cover	<i>Anculosa crassa</i> Hald.	Clinch river? Tenn.
3	"	<i>Melania æqualis</i> Hald.	Nolachucky river.
3	"	<i>uncialis</i> Hald.	Beaver cr., N. E. Tenn.
3	"	<i>symmetrica</i> Hald.	Roanoke river, Va.
3	"	<i>bellacrenata</i> Hald.	Alabama.
3	"	<i>Limnea vitrea</i> Hald.	
3	"	<i>Amnicola attenuata</i> Hald.	Montgomery Co., Va.

Pa.	Pl.	Fig.	Name.	Locality.
3	of cover		<i>Amnicola pallida</i> Hald.	Vermont.
4	"		<i>galbana</i> Hald. (fossil.)	Sussex Co., N. Jersey.
4	"		<i>Sayana</i> Anthony.	
4	"		<i>Melania gracilis</i> vel <i>pulchella</i> Anthony.	Stark Co., O.
4	"		<i>approximata</i> Hald.	Tennessee.
4	"		<i>intersita</i> Hald.	Swan creek, Ind.
4	"		<i>Physa globosa</i> Hald.	Nolachucky river.
4	"		<i>Amnicola pallida</i> Hald.	Middlebury, Vt.
4	"		<i>Paludina carinata</i> Val. (vide supra) = <i>P. multicarinata</i> .	
4	"		<i>Pal. carinata</i> Sw. = <i>P. unicarinata</i> .	

Part V.—July, 1842.

34	xi	1-9	<i>Limnea caperata</i> Say. <i>L. umbilicata</i> Adams.	Vt., Mass., Ind., Ohio, Ill., Pa.
36	xi	10-13	<i>solida</i> Lea. <i>L. apicina</i> Lea.	Oregon.
38	xii		<i>columella</i> Say. <i>L. chalybea</i> Gould. <i>navicula</i> Val. <i>acuminata</i> Adams. <i>macrostoma</i> Say. <i>coarctata</i> Lea. <i>succiniformis</i> Adams, MSS.	Me., Mass., Pa., Ohio, S. C., N. W. Terr.
41	xiii	1-8	<i>humilis</i> Say. <i>L. modicellus</i> Say. <i>parva</i> Lea?	Me. to S. C., Ohio.
44	xiii	9, 10	<i>bulimoides</i> Lea.	Oregon.
45	xiii	11-13	<i>pallida</i> Adams.	Vermont.
47	xiii	14, 15	<i>vitrea</i> Hald.	Ohio? Missouri?
48	xiii	16-18	<i>desidiosa</i> ? <i>L. obrussa</i> Say.	Philadelphia.
49	xiii	19, 20	<i>ferruginea</i> Hald.	Oregon.
50	xiii	21	<i>gracilis</i> Jay.	Lake Champlain.
51	xiii	22, 23	<i>galbana</i> Say (fossil?).	New Jersey.
52	xiv		<i>catascoplum</i> ? <i>L. decollata</i> Mighels.	Maine.
53	xv	1	<i>fragilis</i> Lin. <i>L. Nuttalli</i> Lea.	Oregon.

No. VI.—January, 1843.

23	i		<i>Physa heterostropha</i> Say.	Ga., Me., Oregon, N.W.
	ii	1-9	<i>Lymnaea heterostropha</i> Say. <i>Bulla fontinalis</i> Chem.?	Terr., Canada.

Pl.	Fig.	Name.	Locality.
		<i>crassula</i> Dillw.?	
		<i>Physa aurea</i> Lea.	
		<i>fontana</i> Hald.	
27	iii 1-10	<i>ancillaria</i> Say.	Del. and Conn. rivers.
		<i>P. Sayii</i> Tappan.	
29	ii 11-13	<i>osculans</i> Hald.	Mexico? India?
		<i>Bulla fontinalis</i> Chem.?	
30	ii 10	<i>concolor</i> Hald.	Oregon.
31	iii 11-13	<i>fragilis</i> Mighels.	Maine.
32	iii 1-6	<i>gyrina</i> Say.	Mo., Ind., Ohio, Ver't,
		<i>P. elliptica</i> Lea.	Georgia.
33	iv 7-8	<i>integra</i> Hald.	Indiana.
34	iv 9	<i>scalaris</i> Jay.	Florida.
35	v 1-3	<i>distorta</i> Hald.	Mo., Ohio, Ky.
36	v 4-9	<i>hypnorum</i> Lin.	Mass., Vt., N. Y., West.
		<i>P. elongata</i> Say.	States, Oregon.
		<i>Aplexa hypnorum</i> Gray, &c.	
38	v 10-12	<i>globosa</i> Hald.	Nolachucky river.
		<i>Physella globosa</i> Hald.	
39	iv 12-14	<i>microstoma</i> Hald.	Kentucky, Ohio.
		<i>Physodon microstoma</i> Hald.	
4 of cover		<i>P. striata</i> and <i>P. subarata</i> Mke. = <i>P. heterostropha</i> ?	
4	"	<i>Melania cruentata</i> Mke. = <i>Anculosa præerosa</i> Say.	
4	"	<i>livescens</i> Mke., <i>curta</i> Mke., and <i>fusciata</i> Mke. = <i>M. Virginica</i> .	
4	"	<i>Warderiana</i> Lea = <i>M. simplex</i> Say.	
4	"	<i>acuto-carinata</i> Lea = <i>M. simplex</i> Say.	
4	"	<i>Hildrethiana</i> Lea = <i>M. obovata</i> Say.	
4	"	<i>globula</i> Lea = <i>M. subglobosa</i> Say.	
4	"	<i>virgata</i> Lea = <i>M. subglobosa</i> Say.	
4	"	<i>Cincinnatiensis</i> Lea = <i>Anculosa præerosa</i> Say.	
4	"	<i>Anculosa dentata</i> Lea = <i>A. dentata</i> Couthouy.	
4	"	<i>Melania catenaria</i> Lea (name preoc.)	
4	"	<i>Lymnea fusiformis</i> Lea (name preoc.)	
4	"	<i>Io tenebrosa</i> Lea = <i>Fusus fluviatilis</i> Say.	
4	"	<i>Melania Kirtlandiana</i> Lea = <i>M. exilis</i> Hald.	
4	"	<i>Paludina angulata</i> Lea	} = <i>P. magnifica</i> Conr.
4	"	<i>coosäensis</i> Lea	
4	"	<i>bimonilifera</i> Lea	

No. VII.—January, 1844.

6	i 1-6	<i>Planorbis bicarinatus</i> Say.	N. Engl. to Ga., N. W.
		<i>Helix angulatus</i> Rackett.	Terr. to Tenn.
		<i>P. engonatus</i> Conr.	
		<i>Helisoma bicarinatu</i> Swainson.	

Pa.	Pl.	Fig.	Name.	Locality.
9	i	7-11	Planorbis campanulatus Say.	N. Engl., N. Y., Ohio, Ill., N. W. Terr.
11	ii	1-3	glabratus Say.	S. Car., Mexico? New Orleans, Oregon.
13	ii	4-7	trivolvus Say. <i>P. corpulentus</i> Whittemore. <i>regularis</i> Lea. <i>Bulla fluviatilis</i> Say.	New England, N. Y., Pa., N. W. Terr.
15	iii	1-3	trivolvus var. fallax . <i>P. lentus</i> Gould.	Mass., Lake Erie, Ind. ?
18	iii	4-6	lentus Say.	New Orleans, S. C.
19	iii	7-9	corpulentus Say.	N. W. Terr., Oregon.
21	iv	1-3	exacutus Say. <i>P. exacutus</i> Say (err. typ.) <i>lens</i> and Brogniarti Lea. <i>Paludina hyalina</i> Lea.	New England, N. York, Western States.
23	iv	16-18	dilatatus Gould. (preoc.?) <i>P. dilatus</i> Hald.	Mass., O., Del. riv., Md.
25	iv	4-7	deflectus Say. <i>P. virens</i> Adams.	New England, Ohio, N. W. Terr.
27	iv	19-23	parvus Say. <i>P. elevatus</i> Adams.	East., Midd., & West. States, N. W. Terr.
29	iv	8-10	albus Müller. <i>P. hispidus</i> Drap. <i>hirsutus</i> Gld.	N. England, Lake Su- perior, &c.
30	iv	11-15	armigerus Say.	East., West., & Midd. States, N. W. Terr.
4	i	1	Ancylus rivularis Say.	Del. and Susq. rivers, var. in James river.
6	i	2	depressus Hald.	Holston river, Va.
7	i	3	tardus Say.	Wabash, Vermont.
8	i	4	diaphanus Hald.	Ohio.
9	i	5	obscurus Hald.	Nolachucky river.
10			filosus Conr.	Bl'k Warrior riv., Ala.
11	i	6	parallelus Hald. <i>A. rivularis</i> Gould non Say.	New England.
12	i	7	fuscus Adams.	Fresh pond, Cambridge, Mass.
14	i	8	crassus Hald.	Oregon.
Index— Planorbis parallelus Say. =				
Helix lineata ?				
4	of cover		Amnicola tenuipes Couper.	Hopeton, Ga.
4	"		Melania substricta Hald.	Tennessee.
4	"		conica Say (name restored). <i>substricta</i> Hald. (withdrawn from the species).	
4	"		<i>pilula</i> Lea = Anculosa littorina Hald.	

No. VIII. (No date.)

Pa.	Pl.	Fig.	Name.	Locality.
7	i	2, 3	<i>Amnicola decisa</i> Hald.	Susq. & Schuylk. rivs.
9	i	4	<i>Cincinnatiensis</i> Anthony. <i>Paludina Cincinnatiensis</i> Anth.	Cincinnati.
10	i	5, 6	<i>limosa</i> Say. <i>Paludina limosa</i> Say. <i>Pal. porata</i> Adams & Gould. <i>A. lustrica</i> Hald. in lett.	Maine to Penn'a and Ohio.
12	i	7	<i>pallida</i> Hald. <i>Pal. lustrica</i> Adams.	Lake Champlain.
13	i	8	<i>porata</i> Say. <i>Paludina porata</i> Say.	Cayuga Lake.
15	i	9	<i>galbana</i> Hald. (fossil).	Sussex Co., N. Jersey.
16			<i>lustrica</i> Say. <i>Paludina lustrica</i> Say.	Cayuga Lake.
17			<i>granum</i> Say. <i>Paludina grana</i> Say.	Philadelphia.
18	i	10	<i>lapidaria</i> Say. <i>Pal. lapidaria</i> Say.	East and west of Alleghanies.
19	i	11	<i>Sayana</i> Anthony, in lett. <i>Cyclostoma Cincinnatiensis</i> Lea.	Cincinnati.
21	i	12	<i>Nickliniana</i> Lea. <i>Paludina Nickliniana</i> Lea.	Virginia.
22	i	13	<i>attenuata</i> Hald. <i>A. elongata</i> in tab.	Montgomery Co., Va.
23	i	14-15.	<i>tenuipes</i> Couper.	Georgia.
24			<i>orbiculata</i> Lea.	Ohio, Philadelphia.
24			<i>parva</i> Lea.	Springfield, Ohio.
24			<i>obtusa</i> Lea (<i>Paludina</i>).	Ohio.
5	i, ii		<i>Ampullaria depressa</i> Say. <i>A. paludosa</i> Say. <i>Hopetonensis</i> Lea.	Georgia, Florida.
8			<i>globosa</i> Swainson. <i>A. rotundata</i> Say.	Florida? Calcutta?
10			<i>flagellata</i> Say.	Mexico.
11			<i>urceus</i> Müller. <i>A. rugosa</i> Lam.	Mexico.
11			<i>Paludina intertexta</i> Say. = <i>Ampullaria</i> ?	
11			<i>ponderosa</i> Say, is a true <i>Paludina</i> .	
3	i	1-4	<i>Valvata tricarinata</i> Say. <i>Cyclostoma tricarinata</i> Say. <i>Valvata carinata</i> Sowb. var. <i>simplex</i> Gould. var. ? <i>bicarinata</i> Lea. var. ? <i>unicarinata</i> De Kay.	N. England and Middle States, &c. Schuylkill river.

Pa. Pl. Fig.	Name.	Locality.
6 i 5-10	<i>Valvata sincera</i> Say.	N. W. Terr., Vermont.
9	<i>humeralis</i> Say.	Mexico.
10 i 11-13	<i>pupoidea</i> Gould.	Boston.

In a Supplement to Part I.—October, 1840.

1	<i>Melania interrupta</i> Hald.	Tennessee.
1	<i>suturalis</i> Hald.	Ohio.
1	<i>exilis</i> Hald.	Kentucky and Ohio.
1	<i>substricta</i> Hald. for <i>M. conica</i> Say, preocc.	

Subgenera of **ANCULOSA**.

1	<i>Anculosa</i> Say.	
1	<i>Lithasia</i> Hald.	
1	<i>Paludomus</i> Sw.	
1	<i>Hemimitra</i> Sw.	
1	<i>Mudalia</i> Hald.	
1	<i>Anculosa</i> (<i>Lithasia</i>) <i>geniculata</i> Hald.	East Tennessee.
2	(<i>Mudalia</i>) <i>turgida</i> Hald.	
2	<i>Limnea platystoma</i> Hald.	Vermont.
2	<i>expansa</i> Hald.	Vermont.
2	<i>Physa microstoma</i> Hald.	Kentucky and Ohio.
2	<i>distorta</i> Hald.	Ohio.
2	<i>Discus</i> Hald. = <i>Planorbula</i> Hald.	
2	<i>Spirorbis</i> Swains. = <i>Discus</i> .	
2	<i>Helisoma</i> .	
2	<i>Segmentina</i> .	

Subgenera of **PALUDINA**.

2	<i>Paludina</i> Lam.
2	<i>Lutella</i> Hald.
2	<i>Tulotoma</i> Hald.
2	<i>Nematura</i> Benson.
3	<i>Amnicola</i> G. and H.

Specimen number of Haldeman's Monograph.—Jan. 1, 1840.

3 i 1	<i>Planorbis bicarinatus</i> Say.	
6	<i>Anculotus littorina</i> Hald.	Holston river, Va.

DR. A. A. Gould.—(Am. Journal Sci. and Art, O. S., vol. xxxviii. Date of title, April, 1840.)

Page.

193	<i>Delphinula minor</i> Adams = <i>Delphinoidea</i> (<i>Helix</i>) <i>corpuloides</i> Mont.
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T. J. Whittemore.—(From same.) Notes on—

Page.	Name.	Locality.
193	<i>Planorbis corpulentus</i> .	Vermont.

Dr. A. A. Gould.—(From same.) Descriptions of—

Page.		Page.	
196	<i>Solecurtus nitidus</i> Gould.	196	<i>Natica flava</i> Gould.
196	<i>Mactra ovalis</i> Gould.	197	<i>canaliculata</i> Gould.
196	<i>Bulla debilis</i> Gould.	197	<i>Lacuna neritoidea</i> Gould.
196	<i>obstricta</i> Gould.	197	<i>Fusus scalariformis</i> Gould.
196	<i>Limnæa chalybea</i> Gould.	197	<i>tornatus</i> Gould.
196	<i>Valvata pupoidea</i> Gould.	197	<i>Buccinum roseoceanum</i> Gould.
196	<i>Planorbis hirsutus</i> Gould.		

Page.	Name.	Locality.
396	Notes on <i>Murex tricolor</i> .	California.
396	" <i>bicolor</i> .	California.
396	" <i>Cardium californianum</i> .	California.
396	" <i>Trochus vittatus</i> .	California.
396	" <i>Bullimus undatus</i> .	California.

Prof. C. B. Adams.—(From same.)

Page.	Name.	Locality.
396	Notes on <i>Jamnia producta</i> Adams.	Andover, Mass.
396	" <i>Ancylus fuscus</i> Adams.	Andover, Mass.
396	" <i>Pleurotoma plicata</i> Adams.	New Bedford.
396	" <i>Tornatella puncto-striata</i> Adams.	New Bedford.
396	" <i>Pholas costatus</i> .	New Bedford.

Kirtland.—Fragments of Natural History: by J. P. KIRTLAND, M. D., Prof. Theol. and Prac. Phys., in Med. Coll. Ohio, Cincinnati. No. 1. Habits of the Naiades. (Am. Journ. Sci. and Art, O. S., vol. xxxix, No. 1, pp. 164-168. April-June, 1840.

[Notes on sexual difference and byssus, with a list of species of *Unio*, *Alasmodon*, and *Anodon* examined.]

Page.	
165	<i>Unio pileus</i> Lea is male of <i>U. personatus</i> Say.
165	<i>tenuissimus</i> Lea is female of <i>U. velum</i> Say.
165	<i>donaciformis</i> is female of <i>Zigzag</i> .
165	<i>Margaritana deltoidea</i> Lea is male of <i>Alasmodon calceola</i> Lea.
167	<i>Unio zigzag</i> (young), figure a. b.

Anthony.—List of Land and Fresh-water Shells found chiefly in the vicinity of Cincinnati: by J. G. ANTHONY. (No date given; no descriptions.)

No.		No.	
1	<i>Helix albolabris</i> Say.	4	<i>Pupa modesta</i> Say.
2	<i>appressa</i> Say.	1	<i>Succinea avara</i> Say.
3	<i>alternata</i> Say.	2	<i>campestris</i> Say.
4	<i>arborea</i> Say.	3	<i>ovalis</i> Say.
5	<i>concava</i> Say.	1	<i>Valvata sincera</i> Say.
6	<i>chersina</i> Say.	2	<i>tricarinata</i> Say.
7	<i>clausa</i> Say.	1	<i>Amnicola integra</i> Say.
8	<i>elevata</i> Say.	2	<i>lapidaria</i> Say.
9	<i>electrina</i> Gould.	3	<i>lustrica</i> Say.
10	<i>fuliginosa</i> Griff.	1	<i>Cyclostoma Cincinnatiensis</i> Lea.
11	<i>fraterna</i> Say.		
12	<i>fallax</i> Say.	1	<i>Anculosa prærosa</i> Say.
13	<i>glaphira</i> Say.	1	<i>Physa ancillaria</i> Say.
14	<i>hirsuta</i> Say.	2	<i>elongata</i> Say.
15	<i>inornata</i> Say.	3	<i>heterostropha</i> Say.
16	<i>indentata</i> Say.	4	<i>gyrina</i> Say.
17	<i>inflecta</i> Say.	1	<i>Paludina ponderosa</i> Say.
18	<i>interna</i> Say.	2	<i>integra</i> Say.
19	<i>ligera</i> Say.	3	<i>limosa</i> Say.
20	<i>labyrinthica</i> Say.	4	<i>subcarinata</i> Say.
21	<i>lineata</i> .	5	<i>pallida</i> Lea.
22	<i>limatula</i> Ward.	1	<i>Limnea columella</i> Say.
23	<i>Leai</i> Ward.	2	<i>caperata</i> Say.
24	<i>minuta</i> Say.	3	<i>desidiosa</i> Say.
25	<i>multilineata</i> Say.	4	<i>elodes</i> Say.
26	<i>minuscula</i> Binney.	5	<i>humilis</i> Say.
27	<i>profunda</i> Say.	6	<i>jugularis</i> Say.
28	<i>palliata</i> Say.	7	<i>reflexa</i> Say.
29	<i>perspectiva</i> Say.	8	<i>umbrosa</i> Say.
30	<i>Pennsylvanica</i> Green.	1	<i>Planorbis armigerus</i> Say.
31	<i>runderata</i> Suder.	2	<i>bicarinatus</i> Say.
32	<i>solitaria</i> Say.	3	<i>campanulatus</i> Say.
33	<i>suppressa</i> Say.	4	<i>corpulentus</i> Say.
34	<i>diodonta</i> Say.	5	<i>concava</i> Anthony.
35	<i>thyroideus</i> Say.	6	<i>deflectus</i> Say.
36	<i>tridentata</i> Say.	7	<i>Brogniartiana</i> Lea.
37	<i>zaleta</i> Say.	8	<i>lentus</i> Say.
38	<i>intertexta</i> Binney.	9	<i>parvus</i> Say.
1	<i>Pupa armifera</i> Say.	10	<i>trivolis</i> Say.
2	<i>contracta</i> Say.	1	<i>Melania canaliculata</i> Say.
3	<i>exigua</i> Say.	2	<i>conica</i> Say.

No.		No.	
3	<i>Melania depygis</i> Say.	36	<i>Unio metanevra</i> Raf.
4	<i>Kirtlandiana</i> Lea.	37	<i>monodontus</i> Say.
5	<i>excurata</i> Conrad.	38	<i>nasutus</i> Say.
6	<i>gracilis</i> Anthony.	39	<i>occidens</i> Lea.
7	<i>Sayii</i> Wood.	40	<i>Ovatus</i> Say.
8	<i>undulata</i> Say.	41	<i>pustulosus</i> Lea.
9	<i>varicosa</i> Ward.	42	<i>perplexus</i> Lea.
1	<i>Cyclas dubia</i> Say.	43	<i>pyramidatus</i> Lea.
2	<i>partumeia</i> Say.	44	<i>pustulatus</i> Lea.
3	<i>similis</i> Say.	45	<i>pileus</i> Lea.
4	<i>rhomboidea</i> Say.	46	<i>phaseolus</i> Hildreth.
1	<i>Unio alatus</i> Say.	47	<i>parvus</i> Barnes.
2	<i>abruptus</i> Say.	48	<i>personatus</i> Say
3	<i>anodontoides</i> Lea.	49	<i>plicatus</i> Say.
4	<i>arctior</i> Lea.	50	<i>politus</i> Say.
5	<i>asperrimus</i> Lea.	51	<i>ridibundus</i> Say.
6	<i>Æsopus</i> Green.	52	<i>rectus</i> Lam.
7	<i>crassus</i> Say.	53	<i>rangianus</i> Lea.
8	<i>cicatricosus</i> Say.	54	<i>rubiginosus</i> Lea.
9	<i>cylindricus</i> Say.	55	<i>subovatus</i> Lea.
10	<i>circulus</i> Lea.	56	<i>Schoolcraftensis</i> Lea.
11	<i>compressus</i> Lea.	57	<i>securis</i> Lea.
12	<i>coccineus</i> Lea.	58	<i>sulcatus</i> Lea.
13	<i>Cooperianus</i> Lea.	59	<i>siliquoideus</i> Barnes.
14	<i>clavus</i> Lam.	60	<i>Sayii</i> Ward.
15	<i>cuneatus</i> Barnes.	61	<i>triangularis</i> Barnes.
16	<i>cornutus</i> Barnes.	62	<i>tuberculatus</i> Barnes
17	<i>dehiscens</i> Say.	63	<i>torsa</i> Raf.
18	<i>ebenus</i> Lea.	64	<i>trigonis</i> Lea.
19	<i>elegans</i> Lea.	65	<i>tenuissimus</i> Lea.
20	<i>ellipsis</i> Lea.	66	<i>undatus</i> Barnes.
21	<i>fabalis</i> Lea.	67	<i>verrucosus</i> Barnes.
22	<i>formosus</i> Lea.	68	<i>zigzag</i> Lea.
23	<i>foliatus</i> Hildreth.	1	<i>Alasmodonta ambigua</i> Say.
24	<i>fragosa</i> Conrad.	2	<i>calceola</i> Lea.
25	<i>gibbosus</i> Barnes.	3	<i>deltoides</i> Lea.
26	<i>gracilis</i> Barnes.	4	<i>complanata</i> Lea.
27	<i>Graniferus</i> Lea.	5	<i>rugosa</i> Lea.
28	<i>glans</i> Lea.	6	<i>truncata</i> Say.
29	<i>Hildrethianus</i> Lea.	1	<i>Anodonta edentula</i> Say.
30	<i>heros</i> Say.	2	<i>Ferussaciana</i> Lea.
31	<i>irroratus</i> Lea.	3	<i>Wardiana?</i> Lea.
32	<i>iris</i> Lea.	4	<i>plana</i> Lea.
33	<i>lævissimus</i> Lea.	5	<i>pavonia</i> Lea.
34	<i>lachrymosus</i> Lea.	6	<i>imbecilis</i> Say.
35	<i>multiradiatus</i> Lea.		

Second edition of same. Cincinnati, Jan. 1, 1843.

No.		No.	
1	Amnicola Cincinnatiensis Anthony. <i>Paludina Cincinnatiensis</i> Anthony.	24	Helix elevata Say. <i>H. Knoxvilliana</i> Ferussac.
2	integra Say. <i>Melania integra</i> Say.	25	fallax Say.
3	Amnicola lapidaria Say. <i>Cyclostoma lapidaria</i> Say.	26	fraterna Say. <i>H. monodon</i> Wood. <i>convexa</i> Deshayes.
4	lustrica Say. <i>Paludina lustrica</i> Say.	27	fuliginosa Griffith. <i>H. lucubrata</i> Say <i>lævigata</i> Ferussac.
5	Sayana Anthony. <i>Cyclostoma Sayana</i> Anth. <i>Cincinnatiensis</i> Lea.	28	hirsuta Say. <i>H. fraterna</i> Wood.
6	Anculosa costata Anthony.	29	indentata Say.
7	isogona Say. <i>Melania isogona</i> Say. <i>Paludina pallida</i> Lea.	30	inflecta Say. <i>H. clausa</i> Ferussac.
8	præorsa Say. <i>Melania Cincinnatiensis</i> Lea.	31	inornata Say.
9	Ancylus diaphanus Hald.	32	interna Say. <i>H. pomum-Adami</i> Green.
10	rivularis Say.	33	intertexta Binney.
10½	tardus Say.	34	labyrinthica Say.
11	Bulimus lubricus Bruguiere.	35	ligera Say. <i>H. Rafinesquea</i> Ferussac. <i>Wardiana</i> Lea.
12	vermetus Anthony.	36	limatula Ward.
13	Cyolas dubia Say.	37	lineata Say.
14	partumeia Say.	38	minuscule Binney. <i>H. minutissima</i> Lea.
15	similis Say. <i>C. sulcata</i> Lam.	39	monodon Rackett. <i>H. Leaii</i> Ward.
16	Helix albolabris Say.	40	multilineata Say.
17	alternata Say. <i>H. scabra</i> Lam. <i>radiata</i> Gmelin.	41	palliat Say. <i>H. obstricta</i> Say. <i>denotata</i> Ferussac. <i>Carocolla helicoides</i> Lea. <i>Carolinensis</i> Lea.
18	appressa Say. <i>H. linguifera</i> Ferussac.	42	Pennsylvanica Green.
19	arborea Say.	43	perspectiva Say. <i>H. parrula</i> Deshayes.
20	clausa Say. <i>H. Mitchelliana</i> Lea. <i>Mobiliana</i> Lea.	44	profunda Say. <i>H. Richardi</i> Lam.
21	chersina Say.	45	pulchella Muller. <i>H. minuta</i> Say. <i>paludosa</i> Montagu.
22	concava Say. <i>H. planorboides</i> Ferussac.		
23	electrina Gould.	45	Sayii Binney. <i>H. diodonta</i> Say.

No.		No.	
47	<i>Helix solitaria</i> Say.	80	<i>Planorbis campanulatus</i> Say.
48	<i>striatella</i> Anthony.	81	<i>concausus</i> Anthony.
49	<i>suppressa</i> Say.	82	<i>corpulentus</i> Say.
50	<i>tridentata</i> Say.	83	<i>deflectus</i> Say.
51	<i>thyroideus</i> Say.	84	<i>dilatatus</i> Gould.
52	<i>zalea</i> Say.		<i>P. l. ns</i> (preoccupied) Lea.
53	<i>Limnea caperata</i> Say.	85	<i>exacutus</i> Say.
54	<i>decidiosa</i> Say.		<i>Puludina hyalina</i> Lea.
	<i>L. acuta</i> Lea.	86	<i>lentus</i> Say.
	<i>Philadelphica</i> Lea.	87	<i>parvus</i> Say.
55	<i>elodes</i> Say.	88	<i>trivolvus</i> Say.
56	<i>humilis</i> Say.	89	<i>Pupa albilabris</i> Ward.
	<i>L. parva</i> Lea.		<i>Cyclostoma marginata</i> Say.
57	<i>reflexa</i> Say.	90	<i>armifera</i> Say.
	<i>L. exilis</i> Lea.	91	<i>contracta</i> Say.
58	<i>jugularis</i> Say.	92	<i>corticaria</i> Say.
	<i>L. speciosa</i> Rossmasler.	93	<i>exigua</i> Say.
59	<i>umbrosa</i> Say.	94 ¹	<i>modesta</i> Say.
59 ²	<i>columella</i> Say.	94 ²	<i>pentodon</i> Say.
	<i>L. chalybea</i> Gould.	95	<i>Succinea campestris</i> Say.
60	<i>Melania canaliculata</i> Say.		<i>S. obliqua</i> Say.
61	<i>conica</i> Say.		<i>retusa</i> Lea.
62	<i>depygis</i> Say.	96	<i>avara</i> Say.
63	<i>exilis</i> Hald.	97	<i>ovalis</i> Say.
	<i>M. Kirtlandianus</i> Lea.		<i>S. aurea</i> Lea.
64	<i>gracilis</i> Anthony.	98	<i>Valvata sincera</i> Say.
65	<i>Sayii</i> Wood.	99	<i>tricarinata</i> Say.
66	<i>excurata</i> Conr.		<i>V. bicarinata</i> Lea.
67	<i>undulata</i> Say.	100	<i>Unio alasmodontinus</i> Barn.
68	<i>varicosa</i> Ward.		<i>U. compressus</i> Lea.
69	<i>Paludina heterostropha</i> Kirt.	101	<i>alatus</i> Say.
70	<i>integra</i> Say.		<i>U. megapterus</i> Raf.
71	<i>ponderosa</i> Say.	102	<i>bullatus</i> Raf.
72	<i>subcarinata</i> Say.		<i>U. prasinus</i> Conrad.
72 ²	<i>decisa</i> Say.		<i>Schoolcraftensis</i> Lea.
73	<i>Physa ancillaria</i> Say.		<i>pustulosus</i> Lea.
74	<i>elongata</i> Say.		<i>Dorfeuillanus</i> Lea.
75		103	<i>cardium</i> Raf.
76	<i>gyrina</i> Say.		<i>U. ventricosus</i> Barnes.
	<i>P. elliptica</i> Lea.		<i>occidens</i> Lea.
77	<i>heterostropha</i> Say.		<i>subovatus</i> Lea.
	<i>P. aurea</i> Lea.		<i>dolabriformis</i> Lea.
78	<i>Planorbis armigerus</i> Say.	104	<i>cicatricosus</i> Say.
79	<i>bicarinatus</i> Say.		<i>U. varicosus</i> Lea.

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|--|--|
| <p>No.
105 Unio cuneatus Raf.
 <i>U. modioliformis</i> Say.
 <i>scalenius</i> Raf.
 <i>patulus</i> Lea.
 <i>decisus</i> Lea.</p> <p>106 crassus Say.
 <i>U. ellipsarius</i> Raf.
 <i>fasciatus</i> Raf. (young).
 <i>ligamentina</i> Lam.
 <i>carinatus</i> Barnes.
 <i>ellipticus</i> Barnes.
 <i>venustus?</i> Lea.</p> <p>107 cylindricus Say.
 <i>U. solenoides</i> Raf.
 <i>naviformis</i> Lam.</p> <p>108 cyphus Raf.
 <i>U. Esopus</i> Green.</p> <p>109 dilatatus Raf.
 <i>U. gibbosus</i> Barnes.
 <i>nasutus</i> Lam.
 <i>arctior</i> Lea.</p> <p>110 flavus Raf.
 <i>U. rubiginosus</i> Lea.
 <i>trigonus</i> Lea.</p> <p>111 fasciolus Raf.
 <i>U. multiradiatus</i> Lea.</p> <p>112 fasciolaris Raf.
 <i>U. phaseolus</i> Hild.
 <i>planulatus</i> Lea.
 <i>camelus</i> Lea.</p> <p>113 flexuosus Raf.
 <i>U. foliatus</i> Hild.</p> <p>114 fragilis Raf.
 <i>U. gracilis</i> Barnes.</p> <p>115 fragosus Conr.</p> <p>116 gibbosus Raf.
 <i>U. torulosus</i> Raf.
 <i>perplexus</i> Lea.
 <i>rangianus</i> Lea.
 <i>capsaeformis</i> Lea.</p> <p>117 heros Say.
 <i>U. undulatus</i> Say.
 <i>multiplicatus</i> Lea.</p> <p>118 lapillus Say.
 <i>U. fubalis</i> Lea.</p> | <p>No.
 <i>U. Troostensis</i> Lea.</p> <p>119 Unio leptodon Raf.
 <i>U. planus</i> Barnes.
 <i>velum</i> Say (female).
 <i>purpurascens</i> Swains.
 <i>tenuissimus</i> Lea.</p> <p>120 lineolatus Raf.
 <i>U. depressus</i> Raf.
 <i>securis</i> Lea.</p> <p>121 metanevrus Raf.
 <i>U. nodosus</i> Barnes.</p> <p>122 monodontus Say.
 <i>U. soleniformis</i> Lea.</p> <p>123 mytiloides Raf.
 <i>U. cordatus</i> Raf. (young).
 <i>undatus</i> Barnes.
 <i>pyramidatus</i> Lea.
 <i>solidus</i> Lea.</p> <p>124 nasutus Say.
 <i>U. rostratus</i> Val.
 <i>Vaughanianus?</i> Lea.</p> <p>125 nervosus Raf.
 <i>U. donaciformis</i> Lea.
 <i>zig-zag</i> Lea.</p> <p>126 nigrum Raf.
 <i>U. cuneatus</i> Barnes.
 <i>gibber</i> Lea.</p> <p>127 nodulatus Raf.
 <i>U. pustulatus</i> Lea.</p> <p>128 obliquatus Raf.
 <i>U. sulcatus</i> Lea.
 <i>ridibundus</i> Say (fem.)</p> <p>129 obovallis Raf.
 <i>U. ebenus</i> Lea.</p> <p>130 Ohloensis Raf.
 <i>U. levissimus</i> Lea.
 <i>inflatus</i> Lea.</p> <p>131 olivarius Raf.
 <i>U. ellipsis</i> Lea.</p> <p>132 orbiculatus Hild.
 <i>U. abruptus</i> Say.</p> <p>133 ovatus Say.
 <i>U. globosus</i> Lea (female).
 <i>capax</i> Green (female).</p> <p>134 parvus Barnes.</p> |
|--|--|

No.	No.
134½	149
Unio personatus Say	Unio triquetrus Raf.
(female).	<i>U. cuneatus</i> Swainson.
<i>U. capillaris</i> Say (fem.)	<i>triangularis</i> Bar. (fem.)
<i>pileus</i> Lea (male).	<i>formosus</i> Lea (male).
<i>plenus</i> Lea (male).	150 truncatus Raf.
<i>Sowerbianus</i> Lea.	<i>U. elegans</i> Lea.
135 plicatus Say.	161 tuberculatus Raf.
<i>U. variplicatus</i> Lam.	<i>U. tuberculosus</i> Val.
<i>costatus</i> Raf.	<i>verrucosus</i> Barnes.
<i>Peruvianus</i> Lam.	<i>U. graniferus</i> Lea (y'ng).
136 polltus Say.	152 undulatus Barnes.
<i>U. subrotundus</i> Lea.	153 verrucosus Raf.
<i>Kirtlandianus</i> Lea.	<i>U. tuberculatus</i> Barnes.
137 quadrulus Raf.	154 Anodonta cataracta Say.
<i>U. rugosus</i> Barnes.	<i>A. exilis</i> Lea.
<i>lachrymosus</i> Lea.	<i>salmonia</i> Lea.
<i>asperimus</i> Lea.	<i>Pepiniana</i> Lea.
138 rubrum Raf.	155 Ferussaciana Lea.
<i>U. coccineus</i> Hild.	<i>A. ferruginea</i> Lea.
<i>Gouldianus</i> Ward, old.	156 grandis Say.
<i>catillus</i> Conr.	<i>A. plana</i> Lea.
139 reflexus Raf.	<i>decora</i> Lea (young).
<i>U. cornutus</i> Barnes.	<i>gigantea</i> Lea.
140 rectus Lam.	157 imbecilis Say.
<i>U. latissimus</i> Raf.	<i>A. incerta</i> Lea.
<i>praelongus</i> Barnes.	158 lata Raf.
141 Sayi Ward.	<i>U. dehiscens</i> Say.
142 siliquoides Barnes.	<i>oriens</i> Lea.
<i>U. inflatus</i> Barnes	158½ Alasmodonta ambigua Say.
(female).	<i>U. Hildrethianus</i> Lea.
<i>hydianus</i> Lea.	159 calceola Lea.
143 stegarius Raf.	<i>A. deltoidea</i> Lea.
<i>U. irroratus</i> Lea.	160 complanata Barnes.
144 striatus Raf.	161 costata Raf.
<i>U. Cooperianus</i> Lea.	<i>A. rugosa</i> Barnes.
145 subrostratus Say.	162 edentula Say.
<i>U. iris</i> Lea.	<i>Anodonta undulata</i> Say.
146 subrotundus Raf.	<i>areolata</i> ? Swains.
<i>U. circulus</i> Lepa.	<i>rugosa</i> Swains.
<i>lens</i> Lea.	<i>Wardiana</i> Lea.
147 teres Raf.	<i>pavonia</i> Lea.
<i>U. anodontoides</i> Lea.	<i>Buchanensis</i> Lea.
148 torsus Raf.	163 truncata Say.

Haldeman.—Observations on the Melanians of Lamarck: by S. S. HALDEMAN. (Am. Journ. Sci. and Art, O. S., xli, No. 1, pp. 21-23. April-June, 1841.)

Page 22. Description of animal of *Melania Virginica*.

Nicklin.—DES MOULINS' General Considerations on restricting the number of species of the Genera *Unio* and *Anodonta*: translated from the French by PHILIP H. NICKLIN, A. M. (Same as last article, pp. 104-116.)

H. C. Lea.—Description of eight new species of shells native to the United States; by H. C. LEA, Philadelphia. (In the American Journal of Science, O. S., vol. xlii, No. 1, Oct.-Dec., 1841. With one plate.)

Page.	Pl.	Fig.	Name.	Locality.
106	i	1	<i>Cyrena purpurea</i> H. C. Lea.	Delaware bay.
107	i	2	<i>Modiola elliptica</i> H. C. Lea.	Delaware bay.
107	i	3	<i>pulex</i> H. C. Lea.	Delaware bay.
108	i	4	<i>Crepidula acuta</i> H. C. Lea.	Delaware bay.
109	i	5	<i>Carychium exile</i> H. C. Lea.	Wissahiccon cr., Phila.
110	i	6	<i>Pasithea sordida</i> H. C. Lea.	Near Boston.
111	i	7	<i>Actæon parvus</i> H. C. Lea.	Delaware bay.
111	i	8	<i>Cerithium cancellatum</i> H. C. Lea.	Delaware bay.

On p. 106, the following species are quoted by name only from Delaware bay:—

Actæon trifidus Totten.
Cerithium terebrale.
nigrocinctum.

Cerithium Greenii.
Ostrea Canadensis.

—On page 391 of this volume is a receipt for the preparation of fresh-water shells for the cabinet.

Adams.—On page 392 is a "Note on Mr. H. C. Lea's paper in the last number of this Journal:" by C. B. ADAMS.

Page 392. *Pasithea sordida* = *Actæon trifidus* Totten. (*Odostomia trifida* Gould.)

It is also said not to come from Boston; and, also, *Cerithium Sayii* is not from Boston.

Adams.—Catalogue of the Mollusca of Middlebury, Vermont, and vicinity; with observations: by C. B. ADAMS, Prof. Chem. and Nat. Hist. Middlebury College, Member Bost. Soc. Nat. Hist. (From Am. Journ. Sci., O. S., vol. xl, No. 2, pp. 266-277. January-March, 1841.)

[NOTE.—No descriptions are given, but very full remarks on locality, habits, &c. The paper was also published in pamphlet form, page 266 of the Journal being page 3 of the pamphlet.—W. G. B.]

Page.		Page.	
266	<i>Melania depygis</i> Say.	271	<i>Pupa badia</i> Adams.
266	<i>Paludina decisa</i> Say.	271	<i>albilabris</i> Ward's letter.
267	<i>lustrica</i> Say.		<i>Cyclostoma marginata</i> S.
267	<i>Valvata tricarinata</i> Say.	271	<i>ovata</i> Say.
267	<i>sincera</i> Say (with descr. of animal).		<i>Vertigo ovata</i> Say.
267	<i>Limnæa megasoma</i> Say.	271	<i>contracta</i> Say.
267	<i>appressa</i> Say.	271	<i>exigua</i> Say.
267	<i>gracilis</i> Jay.	271	<i>milium</i> Gould.
268	<i>pallida</i> Adams.	272	<i>Helix albolabris</i> Say.
268	<i>elodes</i> Say.	272	<i>thyroidus</i> Say.
268	<i>umbrosa</i> Say?	272	<i>palliata</i> Say.
	(<i>L. plebeia</i> Gould MSS.)	272	<i>monodon</i> Rackett.
268	<i>desidiosa</i> Say.		<i>H. fraterna</i> Say.
268	<i>caperata</i> Say.	272	<i>concava</i> Say.
268	<i>Physa ancillaria</i> Say.	272	<i>pulchella</i> Müll.
268	<i>heterostropha</i> Say.	273	<i>Sayii</i> Binney.
268	<i>gyrina</i> Say?	273	<i>tridentata</i> Say.
269	<i>elongata</i> Say.	273	<i>labyrinthica</i> Say.
269	<i>Planorbis corpulentus</i> Say.	273	<i>indentata</i> Say.
	<i>P. lentus</i> Say.	273	<i>arborea</i> Say.
269	<i>campanulatus</i> Say.	273	<i>inornata</i> Say.
269	<i>bicarinatus</i> Say.	273	<i>alternata</i> Say.
269	<i>armigerus</i> Say.	273	<i>chersina</i> Say.
269	<i>exacuous</i> Say (<i>exacutus</i> ?)	273	<i>lineata</i> Say.
269	<i>parvus</i> Say.	273	<i>striatella</i> Anthony.
270	<i>elevatus</i> Adams.	273	<i>fuliginosa</i> Griffith.
270	<i>hirsutus</i> Gould.	273	<i>electrina</i> Gould.
270	<i>deflectus</i> Say.		<i>H. Janus</i> Ad. MSS.
270	<i>Succinea obliqua</i> Say.	274	<i>multidentata</i> Binney.
	<i>S. campestris</i> Say?	274	<i>minuscule</i> Binney.
270	<i>ovalis</i> Say.	274	<i>Vitrina pellucida</i> Drap.
270	<i>avara</i> Say.	275	<i>Ancylus parallelus</i> Hald.
	<i>S. vermeta</i> (young).	275	<i>tardus</i> Say.
270	<i>Bulimus lubricus</i> Drap.	275	(Two unknown <i>Limacea</i> , one evidently <i>Tebennophorus</i>
271	<i>Pupa armifera</i> Say.		<i>Carolinensis</i> .—W. G. B.)

Page.		Page.	
276	Anodonta Benedictensis	276	Unio compressus Lea.
	Lea.	276	rectus Lam.
276	cataracta Say.	276	ventricosus Barnes.
276	Wardiana Lea?	276	luteolus Lam.
276	Alasmodonta arcuata Barn.	276	complanatus Lea.
276	rugosa Barnes.	277	Cyclas elegans Adams.
276	undulata Say.	277	rhomboida Say.
276	Unio alatus Say.	277	partumeia Say.
276	gracilis Barnes.	277	calyculata Drap.
277	Remarks on geographical distribution of the above species.		

On page 408 of the same volume, in a supplementary note to the above article, are notes of *Pupa milium* and *Helix striatella*, the last being placed in the synonymy of *Helix ruderata* Studer.

Gould.—Report on the Invertebrata of Massachusetts, comprising the Mollusca, Annelida, and Radiata. Published agreeably to an order of the Legislature, &c.: by A. A. GOULD, M. D. Cambridge, 1841.

MOLLUSCA.

Pa. Fig.		Pa. Fig.	
3	Limax togata Gould.	6	Eolis Bostoniensis Gould.
3	tunicata Gould.		<i>E. rufibranchialis</i> Johnston?
4	Doris illuminata Gould.	6	salmonacea Couth.
5	Tritonia arborescens Cuv.	6	diversa Couth.
	<i>Doris arborescens</i> Müll.	7	gymnota Couth.
	<i>Tritonia Reynoldsii</i> Couth.		

CLASS CONCHIFERA.

Family Tubicolaria Lam.

26 **Teredo navalis** Lin.

Family Pholadaria Lam.

27 **Pholas costata** Lin.

27 **crispata** Lin.

P. bifrons Da Costa.

latus Lister.

Family Solenacea Lam.

28 **Solen ensis** Lin.

S. curvus Lister.

30 **Solecortus (Cultellus) Caribæus** Chemn.

Solen caribæus Lam.

Solecortus Caribæus Conr.

Guineensis Chem.

31 **Solecortus (Cultellus) fragilis** Pult.

Solen fragilis Pult.

Solecortus fragilis Conr.

Solen centralis Say.

Psammobia tæniata Turton.

33 25-6 **Machæra** (n. g.) **nitida** Gould.

Pa. Fig.		Pa. Fig.	
34 p. 24	Machæra costata Say. <i>Solen costatus</i> Say. <i>Solecurtus costatus</i> Say.	37 27	Panopæa arctica Lam. <i>Glycymeris arctica</i> Lam.
35	Solemya velum Say.	39	Glycymeris siliqua Chemn. <i>Mya siliqua</i> Chemn.
36	borealis Tott. <i>S. velum</i> Conr.		<i>G. incrassata</i> Lam. <i>Mya picea</i> Wood.

Family **Myaria.**

40	Mya arenaria Lin. <i>M. mercenaria</i> Say. <i>acuta</i> Say.	43 37	Corbula contracta Say.
42	truncata Lin.	44	Pandora trilineata Say. <i>P. nasuta</i> Sowerby.

Family **Osteodesmacea.**

46 10	Osteodesma hyalina Conr. <i>Mya hyalina</i> Conr. <i>Lyonsia hyalina</i> Conr.	49 29,	Cochlodesma Leana Conr.
47 28	Anatina papyracea Say. <i>A. papyratia</i> ? Totten. <i>A. fragilis</i> Totten.	30	<i>Anatina Leana</i> Conr.
		50	Thracia Conradi Couth. <i>T. declivis</i> Conr. <i>Anatina convexa</i> Hitch. Cat.

Family **Mactracea** Lam.

51	Mactra solidissima Chemn. <i>M. gigantea</i> Lam. <i>Luteola</i> Loven (young).		<i>Mactra arctata</i> Conr. <i>deaurata</i> Conr. <i>subtriangulata</i> Conr.
53 32	ovalis Gould. <i>M. similis</i> Gray. <i>grandis</i> Desh.	58 38	Mesodesma Jauresii De Joan.
54 34-5	lateralis Say.	59	Montacuta bidentata Mont. <i>Mya bidentata</i> Mont.
56 36	Cumingia tellinoides Conr. <i>Mactra tellinoides</i> Conr.	60 33	Kellia rubra Mont. <i>Cardium rubrum</i> Mont. <i>læve</i> Walker.
57 39	Mesodesma arctata Conr.		<i>Tellina rubra</i> Turton.

Family **Lithophagidæ** Lam.

61 40	Saxicava distorta Say. <i>Mytilus rugosus</i> Lin.	63	Petricola pholadiformis Lam. <i>P. fornicata</i> Say.
		65 41	daetylus Sowb.

Family **Nymphacea** Lam.

66 42	Sanguinolaria fusca Say. <i>Psammobia fusca</i> Say. <i>Tellina inconspicua</i> ? Sowb. <i>Grönlandica</i> Beck. <i>Balthica</i> Lin.	67 43	Tellina tenta Say.
		68 44	tenera Say.
67	sordida Couth. <i>Tellina sordida</i> Couth.	69	Lucina radula Mont. <i>Tellina radula</i> Mont. <i>Venus borealis</i> Donovan. <i>Venus spuria</i> Dillwyn. <i>Pectunculus subfuscus</i> Lister.

- | | | |
|----------|--|---|
| Pa. Fig. | | Pa. Fig. |
| 70 | Lucina divaricata Lin.
<i>Tellina divaricata</i> Lin.
<i>Cardium arcuatum</i> Mont.
<i>Pectunculus parvus</i> Lister.
<i>Strigilla divaricata</i> Turton. | 71 52 Lucina flexuosa Mont.
<i>Tellina flexuosa</i> Mont.
<i>Venus sinuosa</i> Donovan.
<i>Cryptodon flexuosa</i> Turton. |

Family **Conchacea** Lam.

- | | | | | |
|-------|--|-------|-----------------------------------|---|
| 72 53 | Cyclas similis Say.
<i>C. sulcata</i> Lam. | | | <i>sulcata</i> Fleming.
<i>Venus Scotica</i> Mont. |
| 73 54 | partumeia Say.
<i>C. cornea</i> Lam. (var.) | 80 47 | Astarte lactea Br. & Sowb. | |
| 74 55 | elegans Adams. | 81 48 | quadrans Gould. | |
| 75 56 | dubia Say. | 82 | Cyprina Islandica Lin. | <i>Pectunculus maximus</i> Lister.
<i>crassus</i> Da Costa. |
| 76 45 | Astarte castanea Say.
<i>Venus castanea</i> Say.
<i>Crassina castanea</i> Lam. | | | <i>Venus Islandica</i> Lin.
<i>mercenaria</i> Pennant.
<i>bucardium</i> Born. |
| 78 46 | sulcata Mont.
<i>Venus sulcata</i> Mont.
<i>Danmonia</i> Mont.
<i>Danmoniensis</i> Blainv.
<i>Crassina sulcata</i> Turton.
<i>Danmoniensis</i> Lam.
<i>Astarte Danmoniensis</i> Sowb. | 84 49 | Cytherea convexa Say. | <i>Cyprina vulgaris</i> Sowb. |
| | | 85 67 | Venus mercenaria Lin. | |
| | | 86 67 | notata Say. | |
| | | 87 50 | fluctuosa Gould. | |
| | | 88 51 | gemma Tott. | |

Family **Cardiacea** Desh.

- | | | | |
|-------|--|-------|---|
| 89 58 | Cardium Islandicum Lin.
<i>C. ciliatum</i> O. Fabr.
<i>pubescens</i> Couth. | 92 | Cardium Grœnlandicum Chem.
<i>Macra radiata</i> Donovan
<i>C. edentulum</i> Sowb.
<i>Aphrodite columba</i> Lea. |
| 90 57 | pinnulatum Conr. | 94 59 | Cardita borealis Conr.
<i>Arcturus rudis</i> Humph. MSS. |
| 91 | Mortoni Conr. | | |

Family **Arcacea** Lam.

- | | | | |
|--------|---|--------|---|
| 95 60 | Arca pexata Say. | | <i>N. rostrata</i> Sowb.
<i>tenuisulcata</i> Couth. |
| 96 | transversa Say. | 102 67 | Nucula Jacksonii Gld. (fossil Me). |
| 97 66 | Nucula thraciæformis Storer. | 103 | navicularis Couth. |
| 98 62 | limatula Say. | 103 63 | proxima Say. |
| 99 | myalis Couth. | 105 64 | tenuis Mont.
<i>Arca tenuis</i> Mont.
<i>Nucula lucida</i> Blanding MSS. |
| 100 61 | sapotilia Gould.
<i>N. lævigata</i> Gould, olim. | | |
| 101 | minuta Gmelin.
<i>Arca minuta</i> Gmelin.
<i>Arca caudata</i> Donovan. | | |

Family **Naiades** Lam.

- | Pa. Fig. | | Pa. Fig. | |
|----------------|--|----------|--|
| 107 68, 69, 70 | Unio complanatus Sol.
<i>Mya complanata</i> Sol.
<i>U. purpureus</i> Say.
<i>purpurascens</i> Lam.
<i>violaceus</i> Spengler.
<i>rarisulcata</i> Lam.
<i>coarctata</i> Lam.
<i>rhombula</i> Lam.
<i>carinifera</i> Lam.
<i>Georgina</i> Lam.
<i>glabrata</i> Lam.
<i>sulcidens</i> Lam.
<i>fluviatilis</i> Green. | 113 75 | Alasmodon arcuata Barnes.
<i>Mya margaritifera</i> ? Lin.
<i>Margaritana margaritifera</i> Lea. |
| | | 115 76 | undulata Say.
<i>Unio undulata</i> Say.
<i>Alasmodonta undulata</i> Barn.
<i>Mya undulata</i> Wood.
<i>Margaritana undulata</i> Lea.
<i>Unio hians</i> Val.
<i>Alasmodon undulata</i> Swains. |
| 109 71 | nasutus Say.
<i>Mya nasuta</i> Wood.
<i>U. rostratus</i> Valenc. | 116 77 | marginata Say.
<i>Unio varicosa</i> Lam.
<i>Alasmodonta truncata</i> ? Say.
<i>Margaritana marginata</i> Lea.
<i>Mya rugulosa</i> Wood. |
| 110 73 | radiatus Gmel.
<i>Mya radiata</i> Gmel.
<i>U. Virginiana</i> Lam.
<i>Mya oblongata</i> Wood. | 117 80 | Anodon fluviatilis Dillw.
<i>Anodonta cataracta</i> Say.
<i>Mytilus fluviatilis</i> Dillw.
<i>illitus</i> Sol. |
| 111 72 | cariosus Say.
<i>U. ovata</i> Val. | 118 78 | implicata Say.
<i>Anodonta Newtoniensis</i> ? Lea.
<i>marginata</i> ? Say (young). |
| 112 74 | ochraceus Say.
<i>Symphynota ochracea</i> Lea. | 120 79 | undulata Say.
<i>A. rugosus</i> Swainson. |

Family **Mytilacea** Lam.

- | | | | |
|--------|--|--------|--|
| 121 82 | Mytilus edulis Lin.
<i>M. vulgaris</i> Da Costa.
<i>Musculus subæxruleus</i> Lister.
<i>M. borealis</i> Lam.
var. <i>pellucidus</i> . | | <i>Mytilus plicatulus</i> Desh.
<i>Modiola semi-costata</i> Conr. |
| 123 | Modiola modiolus Lin.
<i>Mytilus modiolus</i> Lin.
<i>papuanus</i> Desh.
<i>Modiola papuana</i> Lam.
<i>vulgaris</i> Fleming.
<i>Mytilus barbatus</i> Lin. | 127 85 | Modiola pectinula Gould. |
| | | 128 86 | nexa Gould. |
| 125 81 | plicatula Lam.
<i>Mytilus demissus</i> Dillw. | 129 83 | discrepans Mont.
<i>Mytilus discrepans</i> Mont.
<i>discors</i> O. Fabr.
<i>Modiola laxigata</i> Gray (var.) |
| | | 130 84 | discors Lin.
<i>Mytilus discors</i> Lin.
<i>Modiola discrepans</i> Lam. |
| | | 131 87 | glandula Tott. |

Family **Pectenides** Lam.

- | | | | |
|--------|--|--------|--|
| 132 | Pecten magellanicus Gmel.
<i>Ostrea magellanicus</i> Gmel. | | <i>Ostrea cinnabarina</i> Born.
<i>P. Pealeii</i> Conr. |
| 133 89 | Islandicus Müll.
<i>Ostrea Islandica</i> Müll. | 134 88 | Pecten concentricus Say. |

Family **Ostracea** Lam.

Pa. Fig.		Pa. Fig.	
1 6	Ostrea Virginiana Lister.		<i>O. edulis</i> Lin.
	<i>O. Virginica</i> Gmel.	138	Anomia ehippium Lin.
	<i>rostrata maxina</i> Chemn.		<i>Ostreum parvum</i> Lister.
	<i>elongata</i> Sol.	139 90	aculeata Gmel.
	<i>Canadensis</i> Lam.	140	electrica Lin.
137	borealis Lam.	140	squamula Lin.
	<i>O. Canadensis</i> Brug.		

Family **Brachiopoda** Lam.

141	Terebratula caput-serpentis Lin.		<i>T. pubescens</i> Desh.
	<i>Anomia caput-serpentis</i> Lin.		<i>septentrionalis</i> Couth.
	<i>pubescens</i> Dillw.	142 91	Terebratula psittacea Gmel.

CLASS **GASTEROPODA** CUVIER.Family **Phyllidiana** Lam.

143 20	Chiton apiculatus Say.		<i>Patella testudinaria</i> Kaemm.
	<i>C. pectinatus</i> Gould, olim.		<i>tessellata</i> Müll.
147 22	marginatus Penn.		<i>Clealandi</i> Sowb.
	<i>C. cinereus</i> Lowe.		<i>virginea</i> Müll.
148 23	fulminatus Couth.		<i>virginea</i> ? Gmel.
149 24	ruber Lowe.		<i>amæna</i> Say.
150 21	albus Mont.		<i>Patelloidea amæna</i> Couth.
	<i>C. aselloides</i> Lowe.		<i>Patelloida testudinalis</i> Lea.
	<i>sagrinatus</i> Couth.		<i>Patella clypeus</i> Brown.
151 19	Emersonianus Couth.		<i>L. Antillarum</i> Sowb.
152	Patella candida Couth.	154 13	Lottia alveus Conr.
153 12	Lottia testudinalis Müll.		<i>Patella alveus</i> Conr.
	<i>Patella testudinalis</i> Müll.		<i>Patelloidea alveus</i> Couth.

Family **Cirrobranchiata** Blainv.

155 5	Dentalium dentale Lin.		<i>D. attenuatum</i> Say.
	<i>D. striatum</i> Mont.		

Family **Calyptracea** Lam.

156 18	Cemoria Noachina Lin.		<i>Sipho striata</i> Brown.
	<i>Patella Noachina</i> Lin.	158 17	Crepidula fornicata Lin.
	<i>apertura</i> Mont.		<i>Patella fornicata</i> Lin.
	<i>fissurella</i> Müll.	159 16	plana Say.
	<i>Fissurella Noachina</i> Lyell.	160 15	convexa Say.
	<i>Puncturella Noachina</i> Lowe.		<i>C. unguiformis</i> Lam. ?
	<i>C. Flemingii</i> Leach.	161 14	glauca Say.

Family **Bulleana** Lam.

Pa.	Fig.		Pa.	Fig.	
162	92	Bulla insculpta Totten. <i>B. solitaria?</i> Say.	163	97	Bulla canaliculata Say. <i>Volcarea canaliculata</i> Say. <i>Bullina canaliculata</i> Say.
163	100	hiemalis Couth.	167	96	obstricta Gould.
163	94	Gouldii Couth.	168	93	oryza Tott.
164	95	debilis Gould.	169	99	lineolata Couth.
165	98	triticea Couth.			

Family **Colimacea** Lam.

170	191	Helix albolabris Say. <i>Cochlea Virginiana</i> Lister.	185	105	Helix chersina Say.
171	108	thyroidus Say. <i>Cochlea umbilicata</i> Lister. <i>terrestris Virginiana</i> Schroet.	186	117	Fupa contracta Say.
		<i>Mesodon leucodon</i> Raf.	187	118	milium Gould.
172		hortensis Müll. <i>H. subglobosa</i> Binney.	188	119	modesta Say.
173	115	tridentata Say.	189	120	curvidens Gould.
174	113	monodon Rack.	190	121	simplex Gould.
175	116	hirsuta Say. <i>H. fraterna</i> Wood. <i>Stenotrema convexa</i> Raf.	191	122	exigua Say.
176	102	pulchella Müll. <i>Turbo helicius</i> Lightfoot. <i>H. paludosa</i> Mont., &c. &c. <i>minuta</i> Say.	192	123	fallax Say. <i>Cyclostoma marginata</i> Say. <i>P. fallax?</i> Say. <i>placida?</i> Say.
177	114	alternata Say. <i>H. scabra</i> Lam. <i>radiata</i> Gm. l.	193	124	Bulimus lubricus Müll. <i>Helix lubrica</i> Müll. <i>Cionella lubrica</i> Jeffr. <i>Achatina lubrica</i> Michand. <i>Turbo glaber</i> Da Costa. <i>Cochlicopa lubrica</i> Ferussac. <i>Zua lubrica</i> Leach.
178	112	striatella Anthony.	194	125	Succinea ovalis Say.
179	103	lineata Say. <i>Planorbis parallelus?</i> Say.	195	126	campestris Say.
180	104	cellaria Müll. <i>H. nitida</i> Draparnaud. <i>nitens</i> Maton & Rackett. <i>glaphyra</i> Say. <i>Zonites cellarius</i> Gray. <i>lucida</i> Leach.	196	127	avara Say. <i>S. vermeta</i> Say.
181	109	indentata Say.	197	130	Auricula bidentata Say. <i>Melampus bidentatus</i> Say. <i>A. cornea</i> Desh.
182	110	arborea Say.	199	129	denticulata Mont. <i>Voluta denticulata</i> Mont. <i>Actæon denticulatus</i> Fleming. <i>Jaminea denticulata</i> Leach. <i>Conorulus denticulatus</i> Gray. <i>A. myosotis</i> Jeffr. <i>Carychium personatum</i> Mich. <i>A. personata</i> Desh.
183	111	electrina Gould.			
184	106	labyrinthica Say.			

Family **Limneana** Lam.

- | Pa. Fig. | | Pa. Fig. | |
|----------|--|-----------|---|
| 201 131 | Planorbis trivolvis Say.
<i>Cochlea trium orbium</i> Lister.
<i>P. corpulentus</i> Say. | | <i>Cochlea neritoides</i> Lister.
<i>Bulla fontinalis</i> Gmel. (var.)
<i>crassula</i> Dillw.
<i>Limnea heterostrophæ</i> Say. |
| 202 132 | lentus Say. | 213 142 | Physa ancillaria Say. |
| 203 134 | bicarinatus Say.
<i>Helix angulatus</i> Rackett. | 214 143 | elongata Say. |
| 204 133 | campanulatus Say. | 215 144 | Limnæa columella Say.
<i>Lymnaus navicula</i> Val. |
| 205 138 | armigerus Say. | 216 145 | (var.) chalybea Gould. |
| 206 135 | hirsutus Gould. | 217 148 | macrostoma Say.
<i>Limnea acuminata</i> Adams. |
| 207 | elevatus Adams. | 218 149 | umbilicata Adams. |
| 207 136 | deflectus Say.
<i>P. virens</i> Adams (var.) | 218 151 | modicellus Say. |
| 208 137 | exacutus Say.
<i>P. eracuosus</i> Say. | 219 150 | desidiosa Say. |
| 209 139 | parvus Say. | 221 146-7 | elodes Say. |
| 210 140 | dilatatus Gould.
<i>P. lens?</i> Lea. | 223 | catascopium Say.
<i>Lymnaeus cornea</i> Val. |
| 211 141 | Physa heterostrophæ Say.
<i>Bulla fontinalis Indis Orientalis</i> Chemn. | 224 153 | Ancylus rivularis Say. |
| | | 224 152 | fuscus Adams. |

Family **Peristomata** Lam.

- | | | | |
|---------|--|------------|--|
| 225 156 | Valvata tricarinata Say.
<i>Cyclostoma tricarinata</i> Say.
<i>V. carinata</i> Sowb.
(var.) simplex . | 227 p. 144 | Paludina decisa Say.
<i>P. limosa</i> Val. |
| 226 155 | pupoidea Gould. | 229 157 | Amnicola porata Say.
<i>Paludina porata</i> Say. |

Family **Neritacea** Lam.

- | | | | |
|---------|----------------------------|---------|--|
| 231 163 | Natica heros Say. | 238 167 | Natica clausa Br. & Sowb.
<i>N. consolidata</i> Couth.
<i>borealis</i> Beck. |
| 233 155 | triseriata Say. | 239 162 | flava Gould. |
| 234 168 | immaculata Tott. | 240 | Janthina fragilis Lin.
<i>Helix janthina</i> Lin.
<i>Janthina communis</i> Lam. |
| 235 161 | canaliculata Gould. | | |
| 236 164 | duplicata Say. | | |
| 237 166 | pusilla Say. | | |

Family **Macrostomata** Lam.

- | | | | |
|---------|---|---------|--|
| 241 159 | Velutina lævigata Lin.
<i>Helix lævigata</i> Lin.
<i>halioidea</i> Fabr.
<i>Bulla velutina</i> MÜLL.
<i>V. capuloidea</i> Blainv.
<i>rupicola</i> Conr. | | <i>Galericulus lævigatus</i> Brown. |
| | | 242 160 | Velutina zonata Gould. |
| | | 244 158 | Sigaretus halioideus Lam.
<i>Helix halioidea</i> Lin.
<i>Bulla halioidea</i> Mont.
<i>Orynoe glabra</i> Couth. |

Family **Plicacea** Lam.

Pa. Fig.

Pa. Fig.

245 188 **Tornatella puncto-striata** Adams.Family **Scalariæ** Lam.

246 **Vermetus lumbricalis** Lin.
Vermicularia lumbricalis Lam.
Vermetus lumbricalis Lam.
Serpula lumbricalis Lin.
 247 189 **Skenea serpuloides** Montagu.
Helix serpuloides Mont.
Turbo serpuloides Turton.
Delphinula? serpuloides Ad.
Delphinoidea serpuloides Brown.

248 **Scalaria Nov-Angliæ** Couth.
 249 170* **Grœnlandica** Chemn.
Turbo clathrus Grœnlandicus
 Chemn.
S. planicosta Kiener.
subulata Couth.
 250 **lineata** Say.
 251 **multistriata** Say.

Family **Turbinacea** Lam.

252 **Margarita cinerea** Couth.
Turbo cinereus Couth.
Trochus costalis Loven.
 253 171* **obscura** Couth.
Turbo obscurus Couth.
 254 172* **undulata** Sowb.
Turbo incarnatus Couth.
 255 173* **arctica** Leach.
M. helicoides Beck MSS.
Turbo inflatus Totten.
Paludina inflata Menke.
 256 174* **argentata** Gould.
 257 175* **Littorina rudis** Don.
Turbo rudis Don.
obligatus Say.
 259 176* **tenebrosus** Mont.
Turbo tenebrosus Mont.
vestitus Say.
 260 177* **palliat** Say.
Turbo palliatus Say.
neritoides? Lin.
 262 178* **Lacuna vineta** Mont.
Turbo vinctus Mont.

quadrifasciatus Flem.
L. pertusa Conr.
 (var.) **fusca**.
 263 170 **Lacuna neritoidea** Gould.
 265 171 **Cingula minuta** Tott.
 266 172 **aculeus** Gould.
 267 **Turritella erosa** Couth.
 268 173 **interrupta** Tott.
 269 174 **Pyramis striatula** Couth.
 270 175 **Odostomia producta** Adams.
Jaminia producta Adams.
 270 176 **fusca** Adams.
Pyramis fusca Adams.
Jaminia fusca Adams.
 272 177 **exigua** Couth.
Jaminia exigua Couth.
Rissoa rupestris Forbes.
Turritella bisuturalis? Say.
 273 178 **seminuda** Adams.
Jaminia seminuda Adams.
 274 179 **trifida** Tott.
Actœon trifidus Tott.

Family **Canalifera** Lam.

275 180 **Cerithium Emersonii** Adams.
 276 181 **terebræ** Adams.
 277 182 **nigroclinctum** Adams.
 278 183 **Sayi** Menke.
C. reticulatum Tott.
Pasithea nigra Tott. (young).

279 184 **Greenii** Adams.
 280 185 **Pleurotoma decussata** Couth.
 281 186 **bicarinata** Couth.
 282 187 **plicata** Adams.
 283 190 **Cancellaria Couthouyi** Jay.
C. buccinoides Couth.

- | | |
|--|---|
| <p>Pa. Fig. 284 Fusus Islandicus Gmel.
 <i>Murex corneus</i> Pennant.
 <i>Islandicus</i> Gmel.
 <i>F. corneus</i> Say.
 <i>Buccinum gracile</i> Da Costa.
 <i>angustius</i> Lister.</p> <p>284 199 (var.) pygmæus.
 285 200 ventricosus Gmel.
 <i>F. Islandicus</i> Kiener (var.)
 <i>corneus</i> Brown (var.)
 <i>striatus</i> Coll. Par.</p> <p>286 201 tornatus Gould.
 287 202 decemcostatus Say.
 <i>F. carinatus</i> Kiener.</p> <p>288 203 scalariformis Gould.
 289 198 Bamffius Don.
 <i>Murex Bamffius</i> Don.</p> | <p>Pa. Fig. 290 192 Fusus rufus Montagu.
 <i>Murex rufus</i> Mont.
 <i>F. pleurotomarius</i> Couth.</p> <p>291 191 harpularius Couth.
 292 193 turricula Montagu.
 <i>Murex turricula</i> Montagu.
 <i>angulatus</i> Don.</p> <p>293 muricatus Montagu.
 <i>Murex muricatus</i> Mont.</p> <p>294 206 Pyrula canaliculata Lin.
 <i>Murex canaliculatus</i> Lin.
 <i>P. spirata</i> Kiener.</p> <p>296 carica Gmel.
 <i>Murex carica</i> Gmel.</p> <p>297 204 Ranella caudata Say.</p> |
|--|---|
- Family **Alata** Lam.
- 298 205 **Rostellaria occidentalis** Beck.
- Family **Pupurifera** Lam.
- | | |
|--|---|
| <p>300 207 Trichotropis borealis Sowb.
 <i>T. costellatus</i> Couth.</p> <p>301 Purpura lapillus Lin.
 <i>P. imbricata</i> Lam.
 <i>bizonalis</i> Lam.
 <i>Buccinum lapillus</i> Lin.
 <i>Tritonium lapillus</i> Müll.
 <i>Purpuro-Buccinum</i> Da Costa.</p> <p>303 213 Buccinum plicosum Menke.
 <i>Fusus cinereus</i> Say.</p> <p>304 208 Donovani Gray.
 <i>B. glaciale</i> Don.</p> <p>305 undatum Lin.
 <i>B. crassum rufescens</i> Lister.
 <i>vulgare</i> Da Costa.
 <i>Tritonium undatum</i> Müll.</p> | <p><i>B. striatum</i> Pennant.</p> <p>307 209 Buccinum ciliatum O. Fabr.
 <i>Tritonium ciliatum</i> O. Fabr.
 <i>B. ventricosum</i> Kiener.</p> <p>308 210 obsoletum Say.
 <i>Nassa obsoleta</i> Say.
 <i>B. Nov-Eboracensis</i> Wood.
 <i>oliviforme</i> Kiener.</p> <p>309 211 trivittatum Say.
 <i>Nassa trivittata</i> Say.</p> <p>310 212 vibex Say.
 <i>Nassa vibex</i> Say.</p> <p>311 195 rosaceum Gould.
 312 196 lunatum Say.
 <i>Nassa lunata</i> Say.</p> |
|--|---|
- Family **Columellaria** Lam.
- 313 197 **Columbella avara** Say.
- CLASS **CEPHALOPODA** CUVIER.
- | | |
|--|---|
| <p>317 Spirula Peronii Lam.
 <i>Nautilus spirula</i> Lin.</p> | <p>318 Loligo illecebrosa Lesueur.</p> |
|--|---|
- CLASS **TUNICATA** CUVIER.
- | | |
|--|---|
| <p>319 Ascidia rustica Lin.</p> <p>319 Boltenia reniformis Mac Leay.</p> | <p><i>Ascidia globifera</i> Sabine.
 <i>clavata</i> Fabr.</p> <p>320 Botryllus stellatus Pallas.</p> |
|--|---|

Adams.—Description of a new Species of Thracia: by C. B. Adams, Prof. Chem. and Nat. History in Middlebury College. (From American Journal of Science, O. S., vol. xliii, No. 1. April-June, 1842.)

Page.	Name.	Locality.
145	<i>Thracia inequalis</i> Adams. (With three wood-cuts.)	Gulf of Mexico.

Adams.—Fresh-Water and Land Shells of Vermont: by C. B. ADAMS, A. M., Prof. Nat. Hist. in Middlebury College. (From Thomson's History of Vermont, Part I. Also published in pamphlet form, 1842.)

[With full descriptions of genera and species, and wood-cuts of some species.]

Page Hist. Pam.		Page Hist. Pam.	
151 1	<i>Paludina decisa</i> Say, fig.	156 6	<i>Planorbis deflectus</i> Say.
152 2	<i>integra</i> Say.	156 6	<i>hirsutus</i> Gould.
152 2	<i>porata</i> Say.	156 6	<i>Succinea obliqua</i> Say, fig.
152 2	<i>lustrica</i> Say.	156 6	<i>ovalis</i> Say.
152 2	<i>Valvata sincera</i> Say.	156 6	<i>avara</i> Say.
152 2	<i>Melania depygis</i> Say, fig.		<i>S. vermeta</i> Say.
153 3	<i>Limnæa megasoma</i> Say,	157 7	<i>Bulimus lubricus</i> Dr.
153 3	<i>appressa</i> Say. [fig.	157 7	<i>Pupa milium</i> Gould.
153 3	<i>gracilis</i> Jay.	157 7	<i>ovata</i> Say.
153 3	<i>pallida</i> Adams.	157 7	<i>badia</i> Adams.
153 3	<i>elodes</i> Say.	157 7	<i>armifera</i> Say.
154 4	<i>desidiosa</i> Say.	158 8	<i>albilabris</i> Ward, ined.
154 4	<i>caperata</i> Say.		<i>Cyclostoma marginata</i> S.
154 4	<i>Physa ancillaria</i> Say.	158 8	<i>contracta</i> Say.
154 4	<i>heterostrophæ</i> Say, fig.	158 8	<i>Tappaniana</i> Ward, ined.
154 4	<i>gyrina</i> Say.	158 8	<i>exigua</i> Say, fig.
154 4	<i>hypnorum</i> Dr.	159 9	<i>Helix albolabris</i> Say, fig.
	<i>P. elongata</i> Say.	159 9	<i>thyroidus</i> Say.
155 5	<i>Planorbis trivolvis</i> Say,	159 9	<i>dentifera</i> Binn.
	<i>P. lentus</i> Say. [fig.	159 9	<i>palliatæ</i> Say.
	<i>corpulentus</i> Say.	159 9	<i>monodon</i> Rack.
155 5	<i>campanulatus</i> Say.		<i>H. fraterna</i> Say.
155 5	<i>bicarinatus</i> Say.	159 9	<i>concava</i> Say.
155 5	<i>armigerus</i> Say.		(incl. <i>H. Vancouverensis</i> Lea.)
155 5	<i>exacutus</i> Say.		
156 6	<i>parvus</i> Say.		

No.		No.	
249	<i>Cerithium terebrale</i> Adams.	268	<i>Ranella caudata</i> Say.
250	<i>Sayi</i> Menke. <i>C. reticulatum</i> Totten.	269	<i>Rostellaria occidentalis</i> Beck.
251	<i>Pleurotoma decussata</i> Couth.	270	<i>Trichotropis borealis</i> Sowb. <i>T. costellatus</i> Couth.
252	<i>bicarinata</i> Couth.	271	<i>Purpura lapillus</i> Lam.
253	<i>plicata</i> Adams.	272	var. <i>imbricata</i> Lam.
254	<i>Cancellaria Couthouyi</i> Jay. <i>C. buccinoides</i> Couth.	273	var. <i>bizonalis</i> Lam.
255	<i>Fusus Bamffius</i> Flem.	274	<i>Buccinum ciliatum</i> Gould. <i>B. ventricosum</i> Kiener.
256	<i>decemcostatus</i> Say.	275	<i>Donovani</i> Gray.
257	<i>harpularius</i> Couth.	276	<i>lunatum</i> Adams.
258	<i>Islandicus</i> Martini. <i>F. corneus</i> Say.	277	<i>obsoletum</i> Adams.
259	<i>muricatus</i> Brown.	278	<i>plicosum</i> Menke. <i>Fusus cinereus</i> Say.
260	<i>rufus</i> Gould.	279	<i>rosaceum</i> Gould.
261	<i>pygmaeus</i> Gould (var.)	280	<i>trivittatum</i> Adams. <i>Nassa trivittata</i> Say.
262	<i>scalariformis</i> Gould.	281	<i>undatum</i> Lin.
263	<i>tornatus</i> Gould.	282	<i>vibex</i> Adams. <i>Nassa vibex</i> Say.
264	<i>turricula</i> Flem.	283	<i>Columbella avara</i> Say.
265	<i>ventricosus</i> Gray. <i>F. Islandicus</i> Kiener (var.)	284	<i>Spirula Peronii</i> Lam.
266	<i>Pyrula canaliculata</i> Brug.		
267	<i>carica</i> Brug.		

Møller.—Index Molluscorum Groenlandiæ: auctore H. P. C.
MÖLLER. Hafniæ, 1842. [With descriptions.]

CEPHALOPODA.

Page.		Page.	
3	<i>Onycoteuthis Fabricii</i> Möll.	4	<i>Cirrhototeuthis Mulleri</i> Eschr.
	<i>Sepia loligo</i> Fabr.	4	<i>Octopus granulatus</i> . <i>Sepia octopodia</i> Fabr.
3	<i>amœna</i> Möll.		
3	<i>Rossia palpebrosa</i> Owen.		

PTEROPODA.

4	<i>Clione borealis</i> . <i>Clio retusa</i> Fabr.	4	<i>Limacina arctica</i> Sab. <i>Argonauta arctica</i> Fabr.
		4	<i>balea</i> Möll.

GASTEROPODA.

4	<i>Helix Fabricii</i> . <i>Petasia Fabricii</i> Beck. <i>H. nitidia</i> Fabr.	4	<i>Pupa Hoppii</i> Möll.
		4	<i>Vitrina angelicæ</i> Beck. <i>Helix pellucida</i> Fabr.

Page.		Page.	
4	<i>Succinea groenlandica</i> Beck.	8	<i>Margarita</i> ? <i>costulata</i> Möll.
4	<i>Lymnæa</i> <i>Vahlîi</i> .	8	<i>Skenea planorbis</i> .
	<i>Limnophysa Vahlîi</i> Beck.		<i>Turbo planorbis</i> Fabr.
5	<i>Holbollii</i> .	9	<i>Litorina Groenlandica</i> Mke.
	<i>Limnoph. Holbollii</i> Beck.		<i>Nerita liorea</i> Fabr.
5	<i>Pingellîi</i> .	9	<i>arctica</i> Möll.
	<i>Limnoph. Pingellîi</i> Beck.		<i>Nerita litoralis</i> Fabr.
5	<i>Planorbis arcticus</i> Beck.		var. <i>retusa</i> .
5	<i>Aeolidia bodocensis</i> .	9	<i>Lacuna divaricata</i> .
	<i>Doris papillosa</i> Fabr.		<i>Trochus divaricatus</i> Fabr.
5	<i>Tergipes rupium</i> Möll.	9	<i>glacialis</i> Möll.
5	<i>Tritonia arborescens</i> .	9	<i>pallidula</i> Turt.
	<i>Doris arborescens</i> Fabr.	9	<i>Rissoa castanea</i> Möll.
5	<i>Ascanii</i> Sars ?	9	<i>scrobiculata</i> Möll.
6	<i>Doris liturata</i> Beck.	9	<i>globulus</i> Möll.
6	<i>acutiuscula</i> Stp.	9	<i>saxatilis</i> Möll.
6	<i>obelata</i> .		<i>Trochus striatellus</i> Fabr.
	<i>D. obelata</i> Möll. ?	9	<i>Turritella lactea</i> Möll.
6	<i>Euplocamus Holbollii</i> Möll.	10	<i>polaris</i> Beck.
6	<i>Bullæa granulosa</i> .	10	? <i>costulata</i> Möll.
	<i>B. granulosa</i> Sars ?	10	<i>Scalaria groenlandica</i> .
6	<i>punctata</i> Möll.		<i>Turbo clathrus Groenlandicus</i> Chemn.
6	<i>Bulla turrita</i> Möll.	10	<i>Eschrichti</i> Holb.
6	<i>corticata</i> Beck.	10	<i>Menestho</i> Möll. (n. g.)
6	<i>Reinhardi</i> Holb.	10	<i>Cl. albula</i> .
	<i>B. insculpta</i> Totten ?		<i>Turbo albulus</i> Fabr.
6	<i>subangulata</i> Möll.	10	<i>Velutina haliotoides</i> .
7	<i>Natica septentrionalis</i> Beck		<i>Helix haliotoides</i> Fabr.
7	<i>groenlandica</i> Beck.	10	<i>lanigera</i> Möll.
	<i>N. borealis</i> Brod. & Sowb.	10	<i>Sigaretus</i> ? <i>Groenlandicus</i>
7	<i>cornea</i> Möll.		Möll.
	an <i>N. fragilis</i> Sab. var. ?	11	<i>Buccinum glaciale</i> Lin.
7	<i>nana</i> Möll.	11	<i>scalariforme</i> Beck.
7	<i>Amaura</i> Möll. (n. g.)	11	<i>undulatum</i> Möll.
7	<i>candida</i> Möll.	11	<i>cyaneum</i> Beck.
8	<i>Margaritastriata</i> Brod., Sowb.		<i>B. undatum</i> Fabr.
	var. <i>groenlandica</i> .	12	<i>Humphreysianum</i> Benn.
8	<i>undulata</i> Sowb.	12	<i>ciliatum</i> .
	var. <i>lævior</i> .		<i>Trit. ciliatum</i> Fabr.
	var. <i>trochiformis</i> .	12	<i>Purpura lapillus</i> Lam.
	<i>Trochus cinerarius</i> Fabr.	12	<i>Trichotropis Atlantica</i> Beck.
8	<i>helicina</i> .	12	<i>conica</i> Möll.
	<i>Trochus helacinus</i> Fabr.	12	<i>Mangelia Holbollii</i> Beck.
8	<i>glauca</i> Möll.	12	<i>Defrancia nobilis</i> Möll.
8	<i>Vahlîi</i> Möll.		

Page.		Page.	
12	Defrancia scalaris Möll.	15	Fusus latericeus Möll.
12	exarata Möll.	15	Kroyeri Möll.
13	Woodiana Möll.	15	Islandicus Lin.
	<i>Pleur. turricula</i> Wood.	15	Holbollii Möll.
13	elegans Möll.	15	Mitra Grœnlandica Beck.
13	cinerea Möll.	15	Admete Krøyer (n. g.)
13	Pingelii Beck.	15	crispa Möll.
13	Vahlhi Beck.	16	Lottia testudinalis .
13	cylindracea Möll.		<i>Patella testudinalis</i> Lin.
14	Beckii Möll.	16	Cemoria fissurella .
14	livida Möll.		<i>Patella fissurella</i> Müll.
14	viridula .	16	Patella cerea Möll.
	<i>Tritonium viridulum</i> Fabr.		an <i>P. candida</i> Couth. ?
14	Trophon Fabricii Beck.	16	rubella Fabr.
14	clathratum .	16	Chiton ruber Lin.
	<i>Trit. clathratum</i> Fabr.		<i>C. marmoreus</i> Fabr.
14	Banffii .		var. unicolor .
	<i>Murex Banffii</i> Donov.		<i>cinereus</i> Fabr.
14	Fusus carinatus Lam. ?	16	albus Lin.
	var. ventricosa .		

ACEPHALA.

16	Pecten Islandicus Chem.	19	Modolia faba .
16	Lima sulcata Leach.		<i>Mytilus faba</i> Fabr.
17	Nucula tenuis Gray.	19	? cicerocula Möll.
17	corticata Holb.	19	? vitrea Holb.
17	lenticula Möll.		an <i>Myt. decussatus</i> Mont.
17	Leda buccata Stp.	19	Astarte arctica
	an <i>Nuc. rostrata</i> Lam. ?		<i>Crassina arctica</i> Gray.
	var. brevis .	19	semisulcata .
	var. lævior .		<i>Crassina semisulcata</i> Gray.
17	macilenta Stp.	19	Banksii .
17	minuta .		<i>Nicania Banksii</i> Sab.
	<i>Arca minuta</i> Fabr.	20	striata .
	var. tumida .		<i>Nicania striata</i> Leach.
17	complanata Möll.	20	globosa Möll.
18	Yoldia Möll. (n. g.)	20	Cardium Grœnlandicum
18	arctica .		<i>Chemn.</i>
	<i>Nucula arctica</i> Gray.		<i>Venus Islandica</i> Fabr.
19	angularis Möll.	20	Islandicum Chemn.
	<i>Nucula myalis</i> Couth.		<i>C. ciliatum</i> Fabr.
19	Mytilus edulis Lin.	20	elegantulum Beck.
19	Modiola discrepans Sowb.	20	Lesæa minuta .
19	discors .		<i>Venus minuta</i> Fabr.
	<i>Mytilus discors</i> Lin.	20	Tellina calcarea Gmel.

Page.		Page.	
20	Tellina fragilis.	21	Mya truncata Lin.
	<i>Venus fragilis</i> Fabr.	21	arenaria Lin.
20	Cryptodon flexuosum.	21	Hiatella arctica.
	<i>C. flexuosum</i> Turt.?		<i>Mya arctica</i> Fabr.
20	Cyclas Steenbuchii Möll.		<i>byssifera</i> Fabr.
20	Pandorina arenosa Möll.	21	Teredo navalis Lin.?
21	Thracia myopsis Beck.		

TUNICATA.

21	Ghelyosoma Macleayanum	22	Ascidia echinata Lin.
	<i>Brod. & Sowb.</i>	22	conchilega Möll.
21	Cynthia glutinans Möll.	22	complanata Fabr.
22	Ascidia monoceros Möll.	22	lurida Möll.
22	pyriformis Rathke.	22	Clavelina crystallina Möll.
22	villosa Fabr.	22	Boltenia reniformis M'Leay.
22	quadridentata Lin.		<i>Ascidia clavata</i> Fabr.
22	rustica Lin.	22	ciliata Möll.

BRACHIOPODA.

23 **Terebratula psittacea** Lam.

23 **Doris fusca** Fabr.

(There are also diagnoses of undetermined nudibranchiate Gasteropods.
—W. G. B.)

Conrad.—Description of three new Species of *Unio* from the Rivers of the United States: by T. A. CONRAD. (From Journ. Phila. Acad. Nat. Sci., vol. viii, 1842.)

Page.	Name.	Locality.
178	Unio perplicatus Conrad.	Jackson, La.
179	nodiferus Conrad.	Jackson, La.
179	parallelus Conrad.	Jackson, La.

Philipps.—Description of a new American Species of the Genus *Helix*: by J. S. PHILIPPS. (From same.)

Page.	Name.	Locality.
182	Helix lasmodon Philipps.	Alabama.

Haldeman.—Description of five new Species of North American Fresh-water Shells: by S. S. HALDEMAN. (From same.)

Page.	Name.	Locality.
200	<i>Amnicola attenuata</i> Hald.	Montgomery Co., Va.
200	<i>lapidaria</i> Say (notes on).	
200	<i>Sayana</i> Anthony (notes on).	
200	<i>Cincinnatiensis</i> Lea = <i>Sayana</i> (notes on).	
200	<i>Melania integra</i> = <i>Amnicola</i> (notes on).	
200	<i>Physa globosa</i> Hald.	Nolachucky river.
201	<i>Unio puniceus</i> Hald.	Holston river, Va.
202	<i>abacus</i> Hald.	Holston river, Tenn.
202	<i>Anodon plicatus</i> Hald.	Cumberland riv., Tenn.

De Kay.—Zoology of New York: by JAMES E. DE KAY. Part V. Mollusca 4to. pp. 271, 40 plates. Albany, 1843.

(The State Report. Descriptions of the families, genera, &c. are also given. The letters e. l. are placed against the species described as extra limital; many of the other species, however, had not been detected in the State.)

CEPHALOPODA.

Sepiadae.

Page.	Plate.	Fig.	Name.	Locality.
* 3	i	1	<i>Loligo punctata</i> De Kay.	
4	xxxviii	354	<i>Pealeii</i> Les., e. l.	South Carolina.
4			<i>illecebrosa</i> Les., e. l.	Massachusetts.
4			<i>Bartlingii</i> Les., e. l.	Gulf stream.
4	xxxviii	353	<i>pavo</i> Les., e. l.	Massachusetts.
4	xxxvii	352	<i>Bartrami</i> Les., e. l.	Coast of U. S.
4	xxxvii	351	<i>brevipinna</i> Les., e. l.	Delaware bay.

Siphonidae.

5	xxxv	332	<i>Spirula Peronii</i> Lam.	
			<i>Nautilus spirula</i> Linn.	
			<i>Spirula australis</i> Cuvier.	

PTEROPODA.

Clionidae.

6	i	2	<i>Clio borealis</i> Linn.	
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GASTEROPODA.

NUDIBRANCHIA.

Doridae.

8			<i>Doris illuminata</i> Gould, e. l.	Boston bay.
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Tritonidæ.

Page.	Plate.	Fig.	Name.	Locality.
8	v	94	Tritonia Reynoldsi Couth. <i>T. arborescens</i> Gould.	

Glaucidæ.

9	v	96	Eolidia Bostoniensis Couth. <i>Eolis Bostoniensis</i> Couth. <i>rudibranchialis</i> Gould?	
9	v	97	diversa Couth. <i>Eolis diversa</i> Couth.	
10	v	95	gymnota Couth. <i>Eolis (Tergipes) gymnota</i> Couth.	
11	vi	116	Cavollina salmonacea Couth. <i>Eolis salmonacea</i> Gould.	
11			Filurus (n. g.) dubius De Kay.	

INFRABRANCHIA.

12	v	98 a, b	Ancylus rivularis Say.	
13	v	99 a, b	calcarius De Kay.	
13			fuscus Adams.	
13			tardus Say, e. l.	Wabash river.
13			filosus Conrad, e. l.	Alabama.
13			Nuttalli Hald.	Oregon.
13			diaphanus Hald.	Ohio.
13			parallelus Hald.	

TECTIBRANCHIA.**Aceridæ.**

14	v	100 a, b	Bulla insculpta Totten.	
15	v	101	Gouldii Couth.	
15	v	102	obstricta Gould.	
16			<i>Bulla fluvialis</i> Say, is referred doubtfully to Physa planorbula De Kay.	
16	xxxv	334	Bulla lineolata Couth.	
17	xxxv	326	triticea Couth.	
17	xxxv	329	debilis Gould.	
18			<i>Bulla fontinalis</i> Say, referred doubtfully to a Physa .	
18	xxxv	335	Bulla hiemalis Couth.	
18	xxxv	327	oryza Totten.	
19	xxxv	328	canaliculata Say. <i>Volvaria canaliculata</i> Say. <i>Bullina canaliculata</i> Say.	
19			solitaria Say, e. l. <i>Bulla insculpta</i> ?	Southern coast.

PULMONBRANCHIA.

Limacidae.

Page.	Plate.	Fig.	Name.	Locality.
20	i	4	Limax agrestis Linn.	
			<i>L. tunicata</i> Gould.	
21	i	5	flavus Linn.	
			<i>L. variegatus</i> Lam.	
22			campestris Binney.	
22			gracilis Ferussac, e. l.	Western States.
22			dorsalis (Philomycus) Binney, e. l.	Vt., Mass.
23			Arion hortensis Lam.	
			<i>Limax hortensis</i> Lam.	
24	iii	1	Tebennophorus Caroliniensis Bosc.	
			<i>Limax Caroliniensis</i> Bosc.	
			<i>togata</i> Gould.	

Helicidae.

25	iii	42 a, b	Vitrina pellucida Draparnaud.	
26	ii	12	Helix albolabris Say.	
			<i>Cochlea Virginiana</i> Lister.	
27	ii	11 a, b	appressa Say.	
			<i>H. linguifera</i> Ferussac.	
27	ii	6 a, b	exoleta Binney.	
			<i>H. zaleta</i> Say.	
			<i>albolabris</i> , var. <i>unidentata</i> Ferussac.	
28	ii*	7 a, b	tridentata Say.*	
28	iii	23 a, b	fallax Say.	
			<i>H. tridentata</i> (var.) Binney.	
29	ii	8 a, b	thyroidus Say.	
			<i>Cochlea umbilicata</i> Lister.	
29	ii	9	alternata Say.	
			<i>H. scabra</i> Lam.	
30	ii	10 a, b, c	arborea Say.	
30			electrina Gould.	
31	iii	26 a, b	indentata Say.	
31	ii	13 a, b	clausa Say.	
32	ii	14 a, b	subglobosa Binney.	
	iii	39 a, b	<i>H. hortensis</i> Gould.	
33	ii	15 a, b	concava Say.	
33	iii	36 a, b	palliata Say.	
	ii	16 a, b	<i>H. obstricta</i> Say.	
			<i>denotata</i> Ferussac.	
			<i>Carolinensis</i> Lea.	
			<i>Carocolla helicoides</i> Lea.	
34	ii	17 a, b	dentifera Binney.	

Page.	Plate.	Fig.	Name.	Locality.
34	ii	18 a, b	<i>Helix diodonta</i> Say.	
35	iii	19, 21 a, b	<i>monodon</i> Racket.	
			<i>H. fraterna</i> Say.	
			<i>convexa</i> Lam.	
36	iii	27 a, b	<i>hirsuta</i> Say.	
36	iii	20 a, b	<i>elevata</i> Say.	
			<i>H. Knoxvilliana</i> Say.	
37	iii	22	<i>fuliginosa</i> Griffith.	
37	iii	35 a, b	<i>cellaria</i> Müller.	
			<i>H. glaphyra</i> Say.	
			<i>nitida</i> Draparnaud.	
38	iii	24 a, b	<i>suppressa</i> Say.	
38	iii	29	<i>intertexta</i> Gould.	
39			<i>inornata</i> Say.	
39	iii	31	<i>labyrinthica</i> Say.	
40	iii	32 a, b	<i>ligeri</i> Say?	
40	iii	33 a, b	<i>minuta</i> Say.	
			<i>H. pulchella</i> Binney.	
41	iii	34 a, b	<i>multilineata</i> Say.	
41	iii	35 a, b	<i>Pennsylvanica</i> Green.	
42	iii	38 a, b	<i>perspectiva</i> Say.	
42	iii	37 a, b, c	<i>profunda</i> Say.	
			<i>H. Richardi</i> Ferussac.	
43	iii	40 a, b, c	<i>striatella</i> Anthony.	
			<i>H. rudrata</i> Stader?	
43	iii	41 a, b	<i>solitaria</i> Say.	
44	iii	30 a, b	<i>rufa</i> De Kay.	
44			<i>lineata</i> Say.	
			<i>Planorbis parallelus</i> Say.	
44	xxxv	338	<i>cherrina</i> Say.	
45			<i>major</i> Binney, e. l.	Southern States.
45			<i>inflecta</i> Say, e. l.	N. C., W'm St'a
45			<i>irrorata</i> Say, e. l.	Pennsylvania.
			var. <i>lactea</i> Ferussac.	
45			<i>corpuloides</i> Montagu, e. l.	Near Boston.
45			<i>egena</i> Say, e. l.	Pennsylvania.
45			<i>Mitchelliana</i> Lea, e. l.	Ohio.
45			<i>porcina</i> Say, e. l.	N. W. Territory.
45			<i>Vancouverensis</i> Lea, e. l.	Oregon.
46			<i>interna</i> Say, e. l.	Missouri.
46			<i>Nuttalliana</i> Lea, e. l.	Oregon.
46			<i>Columbiana</i> Lea, e. l.	Columbia river.
46			<i>Californiensis</i> Lea, e. l.	California.
46			<i>gularis</i> Say, e. l.	Ohio.
46			<i>Townsendiana</i> Lea, e. l.	Columbia river.

Page.	Plate.	Fig.	Name.	Locality.
46			Helix jejuna Say, e. l.	Southern States.
46			Oregonensis Lea, e. l.	Oregon.
46			dealbata Say, e. l.	Ala., Missouri.
46			Wardiana Lea, e. l.	Ohio.
47	iii	28	auriculata Say (Polygyra), e. l.	Florida.
47			Sayii Wood, e. l.	
47			septemvolva Say, e. l.	Georgia, Florida.
47			avara Say, e. l.	Florida, Carolina.
47			aspersa Ferussac, e. l.	
47	vi	114 a, b	spinosa Lea, e. l.	Alabama.
47			Cumberlandiana Lea, e. l.	Tennessee.
47			lasmodon Philipps, e. l.	Alabama.
48	iv	44	Pupa millium Gould.	
49	iv	45	badia Adams.	
			<i>Pupilla badia</i> Gould.	
49	iv	46	exigua Say.	
49	iv	47	contracta Say.	
50	iv	50	ovata Say.	
			<i>P. modesta</i> Say.	
50	iv	49	corticaria Say.	
50	iv	48	pentodon Say.	
	xxxv	337	<i>P. curvidens</i> Gould.	
			<i>Tappaniana</i> Adams.	
51	xxxv	331	fallax Say.	
			<i>Cyclostoma marginata</i> Say.	
			<i>P. placida</i> Say (Bulimus hordeaceus).	
			<i>albilabris</i> Adams.	
52			armifera Say.	
52	xxxvi	347	simplex Gould.	
52			rupicola Say, e. l.	Florida.
53	iv	51, 52	Succinea ovalis Say.	
			<i>S. lineata</i> De Kay, ined.	
53	iv	53	obliqua Say.	
54	iv	54 a, b	campestris Say.	
54	iv	55	avara Say.	
			<i>S. vermeta</i> Say?	
55			retusa Lea, e. l.	Cincinnati.
55	iii	43	Bulimus lubricus Bruguiere.	
56			mutilatus Say, e. l.	Charleston.
56			multilineatus Say, e. l.	Florida.
56			Achatina solida Say, e. l.	Florida.
56	iv	56	vexillum Humphreys, e. l.	Florida.
56			virginea Linn., e. l.	Florida.
56			striata Ferussac, e. l.	Florida.
56			flammigera Ferussac, e. l.	Florida.

Page.	Plate.	Fig.	Name.	Locality.
56			Glandina truncata Say, e. l. <i>Planorbis glans</i> Say.	S. C. & Florida.

Auriculiadae.

57	v	92, 1—3	Auricula bidentata Say. <i>Melampus bidentatus</i> Say. <i>A. cornea</i> Lam.	
58	v	91, 93	denticulata Montagu. <i>Voluta denticulata</i> Mont. <i>A. personata</i> Lam. <i>borealis</i> Conrad.	
58			obliqua Say, e. l.	Charleston.

Limniadae.

59	iv	59 a, b	Planorbis trivolvus Say.	
60	iv	63 a, b	bicarinatus Say.	
60	v	80* a, b	lentus Say.	
61	iv	60, 61	megastoma De Kay.	
61	v	99* a, b	campanulatus Say.	
62	iv	57 a, b	obliquus De Kay.	
62	iv	64 a; b, c	armigerus Say. <i>Discus armigerus</i> Hald.	
63	iv	62 a, b	exacutus Say.	
63	iv	58	parvus Say.	
64	viii	185* a, b	corpulentus Say.	
64			hirsutus Gould.	
65			elevatus Adams.	
65			deflectus Say.	
66			dilatatus Gould. <i>P. lens</i> Lea?	
66			glabratus Say, e. l.	South Carolina.
63			antrorsus Conrad, e. l.	Alabama.
63			virens Adams, e. l.	Vermont.
67	v	80	Limnea catascopium Say. <i>L. pinguis</i> Say? <i>decollata</i> Adams.	
68	iv	68	fragilis Linn. <i>Helix fragilis</i> Linn. <i>Limnea elodes</i> Say.	
68	iv	76	umbrosa Say. <i>Limneus elongatus</i> Say.	
69	iv	66, 69	caperata Say.	
	v	79	<i>L. umbilicata</i> Adams.	
69	iv	67	pallida Adams.	
70	iv	70	megasoma Say.	

Page.	Plate.	Fig.	Name.	Locality.
70	iv	73	<i>Limnea gracilis</i> Jay.	
71	iv	71 a, b	<i>humilis</i> Say.	
			<i>L. modicella</i> Say?	
71	iv	65, 72 a, b	<i>reflexa</i> Say.	
			<i>L. exilis</i> Lea.	
72	iv	74 a, b	<i>Linsleyi</i> De Kay.	
72	iv	75	<i>columella</i> Say.	
			<i>L. macrostoma</i> Say.	
			<i>acuminata</i> Adams.	
73	iv	77	<i>emarginata</i> Say.	
73	v	78	<i>desidiosa</i> Say.	
			<i>L. acuta</i> Lea.	
			<i>casta</i> Lea?	
			<i>L. Philadelphica</i> Lea.	
74	v	81	<i>jugularis</i> Say.	
			<i>L. stagnalis</i> Kirtland.	
74			<i>appressa</i> Say.	
75			<i>obruosa</i> Say, e. l.	Philadelphia.
			<i>L. decidiosa</i> Hald.?	
75			<i>ferruginea</i> Hald., e. l.	Oregon.
75			<i>rugosa</i> Valenciennes, e. l.	Mexico.
75			<i>attenuata</i> Say, e. l.	Mexico.
75	xxxvi	348	<i>expansa</i> Hald., e. l.	Vermont.
75			<i>solida et apicina</i> Lea, e. l.	Oregon.
75			<i>bulimoides</i> Lea, e. l.	Oregon.
75			<i>vitrea</i> Hald., e. l.	Ohio? Missouri.
76	v	82	<i>Physa heterostropha</i> Say.	
			<i>Limnea heterostropha</i> Say.	
76	v	83	<i>planorbula</i> De Kay.	
			<i>Bulla fluviatilis</i> Say?	
77	v	82	<i>cylindrica</i> Newcomb, ined.	
77			<i>elliptica</i> De Kay.	
			<i>P. cylindrica</i> Lea.	
78	v	85	<i>plicata</i> De Kay.	
78	v	86	<i>obesa</i> De Kay.	
78	v	90	<i>ancillaria</i> Say.	
79	v	87	<i>gyrina</i> Say?	
80	v	88	<i>glabra</i> De Kay.	
80	v	89 a, b	<i>aurea</i> Lea.	
81	xxxvi	346	<i>elongata</i> Say.	
81			<i>pomilia</i> Conrad, e. l.	Alabama.
81			<i>integra</i> Hald., e. l.	Indiana.
81			<i>concolor</i> Hald., e. l.	Oregon.
81			<i>Sayii</i> Tappan, e. l. (no description given).	
81			<i>globosa</i> Hald., e. l.	Virginia.

Cyclostomidae.

Page.	Plate.	Fig.	Name.	Locality.
82			<i>Cyclostoma dentata</i> Say, e. l.	Florida.
82			<i>Cincinnatiense</i> Lea, e. l.	Cincinnati.
			<i>A. [Amnicola] Sayana</i> Anthony?	

Helicinidae.

82			<i>Helicina orbiculata</i> Say, e. l.	Florida.
82			<i>fastigiata</i> Say, e. l.	Illinois.
82			<i>plicata</i> Say.	
82			<i>occulta</i> Say, e. l.	Western States.

PECTINIBRANCHIA.**Turbinidae.**

84	vi	131 a, b	<i>Paludina discissa</i> Say.	
	vii	134	<i>P. decisa</i> Say.	
			<i>ponderosa</i> Deshayes in Lam.	
84	vii	132 a, b	<i>integra</i> Say.	
			<i>P. heros</i> De Kay.	
85	vii	133	<i>isogona</i> Say.	
			<i>P. pallida</i> Lea?	
85			<i>transversa</i> Say, e. l.	Louisiana.
85			<i>intertexta</i> Say, e. l.	Louisiana.
86			<i>ponderosa</i> Say, e. l.	Falls of the Ohio.
			<i>P. heterostropha</i> Kirtland.	
86			<i>Georgiana</i> Lea, e. l.	Darien, Ga.
86			<i>vivipara</i> Say, e. l.	South Carolina.
86			<i>magnifica</i> Conrad, e. l.	Alabama.
86			<i>subpurpurea</i> Say, e. l.	Wabash river.
86			<i>genicula</i> Conrad, e. l.	Georgia.
86			<i>subglobosa</i> Say, e. l.	N. W. Territory.
86			<i>dissimilis</i> Say, e. l.	Pennsylvania.
86			? <i>lapidaria</i> Say, e. l.	Pennsylvania.
			<i>Cyclostoma lapidaria</i> Say.	
87			<i>subcarinata</i> Say, e. l.	Pennsylvania.
87			<i>bimontifera</i> Lea, e. l.	Alabama river.
87			<i>Amnicola lustrica</i> Say.	
			<i>Puludina lustrica</i> Say.	
88	xxxv	333	<i>porata</i> Say.	
			<i>Paludina porata</i> Say.	
88			<i>limosa</i> Say, e. l.	Delaware.
88			<i>grana</i> Say, e. l.	Pennsylvania.
88			<i>Cincinnatiensis</i> Anthony, e. l.	Cincinnati.
88			<i>Nickliniana</i> Lea, e. l. (no description given).	

Page.	Plate.	Fig.	Name.	Locality.
89	vii	135 a, b	Melania depygis Say.	
90			Niagarensis Lea.	
90	vii	141	virginica Say.	
			<i>Paludina virginica</i> Say.	
91	vii	140 a, b	bizonalis De Kay.	
91	vii	142	gemma De Kay.	
92	vii	138	subularis Lea.	
92			undulata Say, e. l.	Ohio river.
92			Hildrethiana Lea, e. l.	Ohio river.
92			castanea Lea, e. l.	Tennessee.
92			lævis Lea, e. l.	
92			Kirtlandiana Lea, e. l.	Indiana & Ohio.
92			Taitiana Lea, e. l.	Alabama.
93			dubiosa Lea, e. l.	Tennessee.
93			ebenum Lea, e. l.	Tennessee.
93			rufescens Lea, e. l.	Tennessee.
93			tuberculata Lea, e. l.	Tennessee.
			<i>M. stygia</i> Say.	
93			armigera Say, e. l.	Ohio river.
93			Hydei Conrad, e. l.	Alabama.
93			catenaria Say, e. l.	South Carolina.
93			cancellata Say, e. l.	Florida.
93			fusiformis Lea, e. l.	Tennessee.
93			clavæformis Lea, e. l.	Tennessee.
94			gracilis Lea, e. l.	Tennessee.
94			subsolida Lea, e. l.	Tennessee.
94			ocoeensis Lea, e. l.	Tennessee.
94			subcylindræa Lea, e. l.	Tennessee.
94			sordida Lea, e. l.	Tennessee.
94			regularis Lea, e. l.	Tennessee.
94			fuliginosa Lea, e. l.	Tennessee.
94			alveare Conrad, e. l.	Tennessee.
94			annulifera Conrad, e. l.	Alabama.
94			biteniata Conrad, e. l.	Alabama.
94			canaliculata Say, e. l.	Ohio.
			<i>M. Sayii</i> Conrad.	
95			conica Say, e. l.	Ohio river.
			<i>Anculotus conicus</i> ?	
95			Nickliniana Lea, e. l.	Virginia.
95			viridis Lea, e. l.	Ohio.
95			occidentalis Lea, e. l.	Ohio.
95			globula Lea, e. l.	Tennessee.
95			altilis Lea, e. l.	Maryland & S. C.
95			strigosa Lea, e. l.	
95			virgata Lea, e. l.	Tennessee.

Page.	Plate.	Fig.	Name.	Locality.
95			Melania tenebrosa Lea, e. l.	Tennessee.
95			Cincinnatiensis Lea, e. l.	Cincinnati.
95			comma Conrad, e. l.	Alabama.
96			congesta Conrad, e. l.	Alabama.
96			elevata Say, e. l.	Ohio river.
			<i>M. elongata</i> Lea?	
96			excurata Conrad, e. l.	Alabama.
96			? integra Say, e. l.	Ohio river.
96			teres Lea, e. l.	Tennessee.
96			obtusa Lea, e. l.	Tennessee.
96			Lecontiana Lea, e. l.	Georgia.
96			rugosa Lea, e. l.	Tennessee.
96			monozonalis Lea, e. l.	Tennessee.
96			terebralis Lea, e. l.	Tennessee.
96			columella Lea, e. l.	Tennessee.
97			blanda Lea, e. l.	Tennessee.
97			orebri-costata Lea, e. l.	Tennessee.
97			laqueata Say, e. l.	Tennessee.
97			lima Conrad, e. l.	Alabama.
97			multilineata Say, e. l.	Penn'a, N. J.
97			nupera Say, e. l.	Wabash river.
97			nassula Conrad, e. l.	Alabama.
97			Curreyana Lea, e. l.	Kentucky.
97			Edgariana Lea, e. l.	Tennessee.
98			decora Lea, e. l.	Tenn., Ky.
98			costulata Lea, e. l.	Tenn., Ky.
98			nitens Lea, e. l.	Tennessee.
98			Deshayesiana Lea, e. l.	Tennessee.
98			concinna Lea, e. l.	Tennessee.
98			babylonica Lea, e. l.	Ohio.
98			arata Lea, e. l.	Tennessee.
98			? obovata Say, e. l.	Kentucky river.
98			olivula Conrad, e. l.	Alabama.
98			prasinata Conrad, e. l.	Alabama.
99			proxima Say, e. l.	South Carolina.
99			pyrenella Conrad, e. l.	North Alabama.
99			Potosiensis Lea, e. l.	Missouri.
99			acuto-carinata Lea, e. l.	Tennessee.
99			Wardariana Lea, e. l.	Virginia.
99			sulcosa Lea, e. l.	Tennessee.
99			striatula Lea, e. l.	Tennessee.
99			pillula Lea, e. l.	Tennessee.
99			circincta Lea, e. l.	Tennessee.
99			venusta Lea, e. l.	Tennessee.
99			Florentiana Lea, e. l.	Tennessee, Ala.
100			salebrosa Conrad, e. l.	Alabama.

Page.	Plate.	Fig.	Name.	Locality.
100			Melania semicarinata Say, e. l.	Kentucky.
			<i>M. acuta</i> Lea.	
100			simplex Say, e. l.	Virginia.
100			trilineata Say, e. l.	Ohio river.
100			trochiformis Conrad, e. l.	Alabama.
100			Troostiana Lea, e. l. [no description].	
100			Duttoniana Lea, e. l.	Tennessee.
100			Holstonia Lea, e. l.	Tennessee.
100			caliginosa Lea, e. l.	Tennessee.
100			nodulosa Lea, e. l.	Tennessee.
100			Boykiniana Lea, e. l.	Georgia.
101			catenoides Lea, e. l.	Georgia.
101			vestita Conrad, e. l.	
101			Anculosus carinatus De Kay.	
			<i>A. dissimilis</i> ?	
102	vii	137	Anculotus trivittatus De Kay.	
102			angulatus Conrad, e. l.	Alabama.
102	vii	139	costatus Anthony, e. l.	Ohio.
102			dentatus Couth., e. l.	Virginia.
102			melanoides Conrad, e. l.	Alabama.
102			monodontoides Conrad, e. l.	Virginia.
102			nigrescens Conrad, e. l.	Maryland.
103			plicatus Conrad, e. l.	Alabama.
103			pictus Conrad, e. l.	Alabama river.
103			prærosus Say, e. l.	Ohio.
103			pumilus Conrad, e. l.	Alabama.
103			subglobosus Say, e. l.	Virginia.
103			tæniatus Say, e. l.	Alabama.
103			Io fusiformis Lea, e. l.	Virginia.
			<i>Fusus fluviatilis</i> Say.	
104	v	103	Littorina rudis Montagu.	
			<i>Turbo rudis</i> Montagu.	
			<i>obligatus</i> Say.	
105	vi	106	tenebrosa Montagu.	
			<i>Turbo tenebrosus</i> Montagu.	
			<i>vestitus</i> Say.	
105	vi	109-11	neritoides Linn.	
			<i>Turbo neritoides</i> Linn.	
			<i>L. palliata</i> Gould.	
106	vi	112 a, b	irrorata Say.	
			<i>Turbo irroratus</i> Say.	
106	v	105	palliata Say.	
			<i>Turbo palliatus</i> Say.	
107	vi	104	Margarita ornata De Kay.	
107			undulata Sowerby.	
			<i>Turbo incarnatus</i> Couth.	

Page.	Plate.	Fig.	Name.	Locality.
108	vi	107	Margarita arctica Lea. <i>Turbo inflatus</i> Totten.	
108	vi	113	cinerea Couth. <i>Turbo cinereus</i> Couth.	
109	vi	108	multilineata De Kay.	
109			obscura Couth., e. l.	Massachusetts.
109			argentata Gould, e. l.	Massachusetts.
110	iv	117	Cingula minuta Totten. <i>Turbo minutus</i> Totten.	
110	vi	115	aculeus Gould.	
111	vi	118	lævis De Kay.	
111	vi	119 a, b, c	Lacuna vineta Montagu. <i>Turbo vinctus</i> Montagu. <i>L. pertusa</i> Conrad. <i>Turbo quadrisulciatus</i> .	
112			neritoidea Gould, e. l.	Massachusetts.
112	vi	123	Turritella interrupta Totten. <i>Eulima? interrupta</i> Gould.	
113	vi	122	erosa Couth.	
113			impressa Say, e. l.	Seacoast.
113			æqualis Say, e. l.	Seacoast.
113			alternata Say, e. l.	Seacoast.
113			concava Say, e. l.	South Carolina.
114	viii	169	Pyramis striatula Couth.	
114	viii	170	Odostomia trifida Totten. <i>Actæon trifidus</i> Totten.	
115	viii	171	seminuda Adams. <i>Jaminia seminuda</i> Adams. <i>Pyramis fusca</i> Adams.	
115	xxxi	297	insculpta De Kay.	
116	xxxvi	342	fusca Adams. <i>Pyramis fusca</i> Adams.	
116	xxxi	296	producta Adams, e. l. <i>Jaminia producta</i> Adams.	Massachusetts.
116	xxxi	294-95	exigua Couth., e. l. <i>Jaminia exigua</i> Couth. <i>Turritella bisuturalis</i> Say.	Massachusetts.
117	xxxvi	349	Vermetus lumbricalis Lin., e. l.	Northern coast.
117	xxxii	203	Skenea serpuloides Adams. <i>Delphinula serpuloides</i> Adams.	
117			? laxa Say, e. l. <i>Delphinula laxa</i> Say.	South Carolina.
118	vi	130 a, b	Valvata tricarinata Say. <i>Cyclostoma tricarinata</i> Say.	
118	vi	129	unicarinata De Kay.	
119	vi	127-28	sincera Say.	

Page. Plate.	Fig.	Name.	Locality.
119		Valvata arenifera <i>Lea</i> is the larva-case of some insect.	
119		pupoidea <i>Gould</i> , e. l.	Massachusetts.
120 vii	148	Natica heros <i>Say</i> .	
121 vii	147	duplicata <i>Say</i> .	
121 vii	144	triseriata <i>Say</i> .	
122 vii	146	immaculata <i>Totten</i> .	
122 vii	150	clausa <i>Sowerby</i> .	
		<i>N. consolidata</i> <i>Couth</i> .	
123 vii	145	pusilla <i>Say</i> .	
123		flava <i>Gould</i> .	
123		canrena <i>Lam</i> .	Asiatic, not Am.
123		alba <i>Say</i> [no description: doubtful].	
123		lunata <i>Say</i> [no description: doubtful].	
Trochidæ.			
124		Ampullaria Hopetonensis <i>Lea</i> , e. l.	Georgia.
124		rotundata <i>Say</i> , e. l.	Florida.
124		paludosa et depressa <i>Say</i> , e. l.	Florida.
124		<i>Ampullaria penesma</i> <i>Say</i> , MSS.	
		<i>disseminata</i> <i>Say</i> , MSS.	
125 xxxvi	360	Janthina fragilis <i>Bruguere</i> .	
125 vi	124 a, b	Scalaria subulata <i>Couth</i> .	
		<i>S. Grænlandica</i> <i>Gould</i> .	
		<i>Turbo clathrus-Grænlandicus</i> <i>Chemnitz</i> .	
126 vi	125	lineata <i>Say</i> .	
126		multistriata <i>Say</i> .	
127 vi	126	Novangliæ <i>Couth</i> ., e. l.	
127		clathrus <i>Linn</i> ., e. l.	Southern coast.
127		turbinata <i>Conrad</i> , e. l.	North Carolina.
127 vii	143	Tornatella puncto-striata <i>Adams</i> .	
128		Pirena scalariformis <i>Say</i> , e. l.	Florida Keys.
Cerithidæ.			
128 viii	167	Cerithium Sayii <i>Gould</i> .	
		<i>Pasithea nigra</i> <i>Totten</i> .	
		<i>Cerithium reticulatum</i> <i>Totten</i> .	
129		ferrugineum <i>Say</i> , e. l.	Florida.
129 viii	168	Emersonii <i>Adams</i> , e. l.	Nantucket.
129		septemstriatum <i>Say</i> , e. l.	Florida.
129		nigrocinctum <i>Adams</i> , e. l.	Massachusetts.
130 viii	172	terebrale <i>Adams</i> , e. l.	Massachusetts.
130		Greeni <i>Adams</i> , e. l.	Massachusetts.
130		muscarum <i>Say</i> , e. l.	Florida.
Purpuridæ.			
130 vii	161	Buccinum undatum <i>Linn</i> .	

Page.	Plate.	Fig.	Name.	Locality.
131	vii	162*	Buccinum lunatum Say. <i>Nassa lunata</i> Say.	
132	vii	162	Wheatleyi De Kay.	
132	viii	165	trivittatum Say. <i>Nassa trivittata</i> Say.	
133	viii	163-64	obsoletum Say. <i>Nassa obsoleta</i> Say. <i>B. Noveboracensis</i> Wood. <i>olivæformis</i> Kiener.	
133			vibex Say. <i>Nassa vibex</i> Say.	
134			Donovani Gould, e. l.	
134			ciliatum Gould, e. l.	
134			rosaceum Gould, e. l.	
134			acutum Say, e. l.	Southern coast.
134			undulinctum Say, e. l.	South Carolina.
134			ornatum Say, e. l.	Southern coast.
134			album Say, e. l.	Florida.
135	viii	175	Purpura lapillus Linn. <i>Buccinum lapillus</i> Linn.	
136	viii	173	imbricata Lam. <i>P. lapillus</i> (var.) Russel.	
136	viii	174	bizonalis Lam. <i>P. lapillus</i> (var.) Gould	
136			Floridana Conrad, e. l.	Florida, Ala.
137	viii	178 a, b	Trichotropis borealis Sowerby. <i>T. costellatus</i> Couth.	
138	vii	160	Cancellaria Couthouyi Jay. <i>C. buccinoides</i> Couth.	
139	viii	176 a, b	Ranella caudata Say.	
139	viii	179	Columbella avara Say.	
140	ix	190	Pyrula canaliculata Linn. <i>Murex canaliculatus</i> Linn.	
141	ix	192-93	carica Linn. <i>Murex carica</i> Linn.	
142	viii	180-81	spirata Lam. <i>Fulgur pyruloides</i> Say.	
142			papyratia Say, e. l.	Southern coast.
143	viii	182	Fusus scalariformis Gould? <i>F. borealis</i> De Kay.	
144	viii	185	Islandicus Linn. <i>Murex Islandicus</i> Linn <i>F. corneus</i> Say. <i>Islandicus</i> var. <i>pygmaeus</i> Gould.	
144	viii	183	ventricosus Gray.	

Page.	Plate.	Fig.	Name.	Locality.
145	viii	184 a, b	Fusus cinereus Say. <i>Buccinum plicosum</i> Gould.	
145	ix	186	decemcostatus Say. <i>F. carinatus</i> Lam.?	
146	ix	187	harpularius Couth.	
146	ix	189	rufus Montagu. <i>Murex rufus</i> Montagu. <i>F. pleurotomarius</i> Couth.	
147	ix	188	imbricatus De Kay.	
147	ix	191	pyruloides De Kay.	
148			tornatus Gould. <i>Murex despectus</i> Linn.	
148	xxxvi	339	bamfius Montagu. <i>Murex bamfius</i> Montagu.	
148			bicolor Say, e. l.	Florida.
149			muricatus Gould, e. l.	Northern coast.
149	xxxvi	340	turriculus Gould, e. l.	
149	vi	113	Pleurotoma bicarinata Couth.	
150	xxxvi	344	decussata Couth.	
150	vi	120	plicata Adams.	
151	viii	177	Rostellaria occidentalis Guérin, e. l.	Maine.
Conidæ.				
151			Conus mus Lam., e. l.	Florida Keys.
151			leucostrictus Gmelin, e. l.	
Mitriadæ.				
152	vii	158	Terebra dislocata Say, e. l. <i>Cerithium dislocatum</i> Say. <i>T. Petitti</i> Kiener.	Md. & S'n coast.
152	vii	157	Oliva literata Lam., e. l. <i>O. mutica</i> Say.	Southern coast.
152	vii	159	Marginella carnea Storer, e. l.	Key West.
Cryptostomidæ.				
153	vii	156 a, b	Sigaretus perspectivus Say.	
153			haliotoideus Gould, e. l. <i>S. oxinoë</i> Couth.	Massachusetts.
153			maculatus Say, e. l.	Southern coast.
154	xxiii	254	Velutina lævigata Linn. <i>Helix lævigata</i> Linn. <i>V. capuloidea</i> Blainville. <i>rupicola</i> Conrad. <i>Galericulum lævigatum</i> Brown.	

Page.	Plate.	Fig.	Name.	Locality.
154	xxiii	253	Velutina zonata Gould. <i>Galericulum ovatum</i> Couth.?	

SCUTIBRANCHIA.**Calyptriadæ.**

155	vii	155 a, b	Calyptra striata Say.	
156	ix	195	Cemoria Noachina Linn. <i>Patella Noachina</i> Linn. <i>C. Flemingii</i> Leach. <i>Rimula Noachina</i> Couth.	
156			alternata Say? e. l.	Coast of U. S.
			<i>Fissurella alternata</i> Say.	
157	vii	152-4	Crepidula fornicata Linn. <i>Patella fornicata</i> Linn.	
158	vii	153 a, b	plana Say. <i>C. unguiformis</i> Lam.?	
158	vii	131	convexa Say.	
159			glauca Say.	
159			depressa Say, e. l.	Southern coast.
159			intorta Say? e. l.	Southern coast.

CIRROBRANCHIA.**Dentalidæ.**

160	x	197	Dentalium dentalis Linn.	
161			attenuatum Say, e. l.	Maryland.

CYCLOBRANCHIA.**Patellidæ.**

161			Patella candida Couth.	
162	ix	196	Patelloidea testudinalis Müller. <i>Patella amana</i> Say. <i>testudinalis</i> Lea. <i>Lottia testudinalis</i> Gould.	
162	ix	194	alveus Conrad. <i>Patella alveus</i> Conrad. <i>Lottia alveus</i> Gould.	

Chitonidæ.

163	x	200	Chiton albus Montagu. <i>C. sagrinatus</i> Couth. <i>aselloides</i> Lowe.	
164	x	201-2	apiculatus Say. <i>C. pectinatus</i> Gould.	
164			marginatus Pennant, e. l.	Massachusetts.

Page. Plate.	Fig.	Name.	Locality.
165 x	199	Chiton fulminatus <i>Couth.</i> , e. 1.	Massachusetts.
165		ruber <i>Lowe</i> , e. 1.	Massachusetts.
165 x	198	Emersonii <i>Couth.</i> , e. 1.	Mass. bay.

ACEPHALA.**BRACHIOPODA.****Terebratulidæ.**

167 xxxiv	321	Terebratula caputserpentis <i>Lin.</i> , e. 1.	Me. & Mass.
		<i>T. septentrionalis</i> <i>Couth.</i>	
167 xxxiv	322	psittacea <i>Gmelin</i> , e. 1.	Massachusetts.
		thalassina <i>Gould</i> , e. 1. [no description].	

LAMELLIBRANCHIA.**Ostracidæ.**

168 xii	209	Anomia ephippium <i>Linn.</i>	
		<i>A. patellaris</i> <i>Lam.</i>	
168 xii	210	aculeata <i>Gmelin</i> .	
168		electrica , e. 1. [not described].	Massachusetts.
168		squamula , e. 1. [not described].	Massachusetts.
169 x	203-4	Ostrea borealis <i>Lam.</i>	
		<i>O. virginica</i> <i>Lam.</i>	
		<i>Canadensis</i> <i>Lam.</i>	
171		semicylindrica <i>Say</i> , e. 1.	Ga. & Florida.
171		equestris <i>Say</i> .	S. C. & Florida.

Pectinidæ.

172 xi	205	Pecten concentricus <i>Say</i> .	
		<i>P. lineolaris</i> <i>Lam.</i> ?	
173 xi	206	Islandicus <i>Müller</i> .	
		<i>Ostrea Islandica</i> <i>Müller</i> .	
		<i>P. Pealeii</i> <i>Conrad</i> .	
173 xi	207 A, B	Magellanicus <i>Gmelin</i> .	
		<i>Ostrea Magellanica</i> <i>Gmelin</i> .	
174		purpuratus <i>Lam.</i> , e. 1.	Southern coast.
		<i>P. dislocatus</i> <i>Say</i> .	
174		ornatus <i>Lam.</i> , e. 1.	Florida.
174		nodosus <i>Lam.</i> , e. 1.	Florida.
174		varius <i>Turton</i> , e. 1.	Northern coast.
174		Plicatula ramosa <i>Lam.</i> , e. 1.	
175		Lima squamosa <i>Lam.</i> , e. 1.	Florida.
175 xi	208	glacialis <i>Lam.</i> , e. 1.	Florida.

Aviculidæ.

175		Avicula Atlantica <i>Lam.</i> , e. 1.	Southern coast.
		<i>A. hirundo</i> <i>Say</i> .	

Arcadae.

Page.	Plate.	Fig.	Name.	Locality.
176	xii	211	<i>Arca pexata</i> Say.	
177	xii	212	<i>transversa</i> Say.	
177			<i>ponderosa</i> Say, e. l.	Southern coast.
177			<i>incongrua</i> Say, e. l.	Southern coast.
178	xii	217 a, b	<i>Nucula thraciæformis</i> Storer.	
179	xii	216	<i>radiata</i> De Kay.	
179	xii	215	<i>proxima</i> Say.	
180	xiii	221 a, b	<i>Gouldi</i> De Kay.	
180	xiii	219	<i>myalis</i> Couth., e. l.	Northern coast.
180	xiii	218	<i>limatula</i> Say, e. l.	Maine & Mass.
180	xiii	220	<i>sapotilla</i> Gould, e. l.	Northern coast.
180			<i>navicularis</i> Couth., e. l.	
181			<i>tenuis</i> Gould, e. l.	
181	xii	213	<i>minuta</i> Gould, e. l.	
			<i>N. tenuisulcata</i> Couth.	
181			<i>acuta</i> Conrad, e. l.	Virginia.

Mytilidæ.

182	xiii	222	<i>Mytilus borealis</i> Lam.	
			<i>M. edulis</i> Gould.	
182	xiii	223	<i>notatus</i> De Kay.	
183	xxiv	256	<i>pellucidus</i> Pennant.	
			<i>M. edulis</i> var. <i>pellucidus</i> Gould.	
183			<i>incurvatus</i> Lam., e. l.	Northern shores.
			an <i>M. borealis</i> var. ?	
183			<i>ungulatus</i> Linn., e. l.	
183			<i>cubitus</i> Say, e. l.	Seacoast.
183			<i>lateralis</i> Say, e. l.	Southern coast.
183			<i>hamatus</i> Say, e. l.	Southern coast.
			<i>M. striatus</i> Barnes.	
184			<i>leucopheatus</i> Conrad, e. l.	Southern coast.
184	xxiv	258	<i>Modiola plicatula</i> Lam.	
			<i>M. semicostata</i> Conrad.	
185	xxiv	257	<i>modiolus</i> Linn.	
			<i>Mytilus modiolus</i> Linn.	
			<i>Modiola papuana</i> Lam.	
185			<i>pectinula</i> Gould, e. l.	St. George's b'ks.
185			<i>nexa</i> Gould, e. l.	Massachusetts.
185			<i>discrepans</i> Montagu, e. l.	Massachusetts.
185			<i>discors</i> Montagu, e. l.	Massachusetts.
186			<i>Carolinensis</i> Conrad, e. l.	Charleston, S. C.
186			<i>Americana</i> Leach, e. l.	Southern coast.
186			<i>castanea</i> Say, e. l.	Southern coast.

Page.	Plate.	Fig.	Name.	Locality.
186	xxii	248	Crenella decussata Laskey & Montagu. <i>Mytilus decussatus</i> Laskey & Montagu. <i>Modiola glandula</i> Totten.	
187			Pinna seminuda Lam., e. l.	Southern coast.
187			muricata Lam., e. l.	Southern coast.
Unionidæ.				
188	xxii	246	Unio complanatus Solander. <i>Mya complanata</i> Solander. <i>U. purpureus</i> Say.	
189			Boydianus Lea.	
189	xviii	236	radiatus Gmelin. <i>Mya radiata</i> Gmelin.	
190			ventricosus Barnes. <i>U. occidens</i> Lea?	
190	xx	241	luteolus Lam. <i>U. siliquoides</i> Barnes. <i>inflatus</i> Barnes.	
191	xxi	245	compressus Lea. <i>Symphynota compressa</i> Lea.	
191	xx	239	nasutus Say. <i>U. rostratus</i> Valenciennes.	
192	xxxix	355-6; xl 357	Unio rosaceus De Kay.	
193	xix	237-38	Unio ochraceus Say. <i>Symphynota ochracea</i> Lea.	
193	xxi	243-44	cariosus Say. <i>U. ovata</i> Valenciennes.	
194	xx	240	Novi-eboraci Lea.	
194	xx	242	Tappanianus Lea.	
195			alatus Say.	
195			rectus Lea. <i>U. prælongus</i> Barnes.	
196	xiv	226	Alasmodonta rugosa Barnes. <i>Margaritana rugosa</i> Lea.	
196	xiv	225	marginata Say. <i>Monodonta marginata</i> Say. <i>Margaritana marginata</i> Lea.	
197	xiv	224	arcuata Barnes. <i>Margaritana margaritifera</i> Lea.	
198	xv	227	undulata Say. <i>Margaritana undulata</i> Lea.	
198	xxiv	259	corrugata De Kay.	
199	xv	228	Anodon unadilla De Kay.	
200	xvi	229	subcylindræa Lea.	
200	xvi	230	Ferussaciana Lea.	

Page.	Plate.	Fig.	Name.	Locality.
201	xvi	231	Anodon edentula Say. <i>Alasmodonta edentula</i> Say. <i>Anodon areolatus</i> Swainson.	
201	xvii	232	plana Lea.	
202	xvii	233	excurvata De Kay.	
202			implicata Say. <i>A. Newtoniensis</i> Lea. <i>marginata</i> Say (young).	
203	xviii	234	fluviatilis Dillwyn. <i>A. cataracta</i> Say.	
203	xi	358	pavonia Lea.	
204	xviii	235	Benedictensis Lea. <i>Symphynota Benedictensis</i> Lea.	
Cardidæ.				
204	xxii	247	Cardita borealis Conrad. <i>Venericardia cibraria</i> Say?	
205			incrassata Conrad, e. l.	Florida.
205			tridentata Say, e. l.	South Carolina.
			<i>Venericardia tridentata</i> Say.	
205	xxii	249	Cardium pinnulatum Conrad.	
206	xxiii	252	Islandicum Linn. • <i>C. pubescens</i> Couth.	
206	xxiii	250	Groenlandicum Gmelin. <i>Aphrodita columba</i> Lea.	
207	xxiii	251	Mortoni Conrad.	
207			fasciatum Montagu, e. l.	
207			muricatum Linn., e. l.	S. C. & Florida.
207			ventricosum Bruguiere, e. l.	South Carolina.
Chamidæ.				
208			Chama arcinella Lam., e. l.	Florida.
CONCHIFERA.				
Tellinidæ.				
209	xxvi	271	Tellina tenera Say.	
209	xxvi	272	versicolor Cozzens.	
210			tenta Say.	
210			lateralis Say, e. l.	Seacoast.
210			polita Say, e. l.	Southern coast.
210			iris Say, e. l.	Southern coast.
210			flexuosa Say, e. l.	Southern coast.
211			interstriata Say, e. l.	East Florida.
211			alternata Say, e. l.	Ga. & E. Florida.
211			decora Say, e. l.	East Florida.
211			mera Say, e. l.	

Page.	Plate.	Fig.	Name.	Locality.
211	xxiii	255	Donax fossor Say.	
212			<i>variabilis</i> Say, e. l.	Ga. & Florida.
212			<i>elevata</i> Hald., e. l.	New Orleans.
212	xxv	260	Capsa lævigata Conrad, e. l.	Florida.
212			<i>deflorata</i> Conrad, e. l.	Florida.
212	xxxii	304	Sanguinolaria fusca Say.	
			<i>Psammobia fusca</i> Say.	
213	xxxii	305	<i>sordida</i> Couth.	
			<i>Tellina sordida</i> Couth.	
213			<i>lusoria</i> Say, e. l.	N. J. to Florida.
			<i>Psammobia lusoria</i> Say.	
213			<i>rugosa</i> Lam., e. l.	Florida.
214	xxvi	273	Lucina divaricata Linn.	
			<i>Tellina divaricata</i> Linn.	
			<i>Strigilla divaricata</i> Turton.	
214	xxvi	274	<i>radula</i> Montagu, e. l.	Northern coast.
214	xxvii	275	<i>contracta</i> Say, e. l.	Rhode Island.
214			<i>flexuosa</i> Montagu, e. l.	Northern coast.
Veneridæ.				
215	xxvi	268-69	Cyprina Islandica Linn.	
			<i>Venus Islandica</i> Linn.	
216	xxvii	279	Cytherea convexa Say.	
216			<i>occulta</i> Say, e. l.	Southern States.
216			<i>concentrica</i> Lam., e. l.	Va. to Florida.
216			<i>gigantea</i> Lam., e. l.	Southern States.
217	xxvii	276	Venus mercenaria Linn.	
218	xxvii	278	<i>notata</i> Say.	
218	xxvii	277	<i>gemma</i> Totten.	
219			<i>præparca</i> Say.	
			<i>V. notata</i> (var. ?) Gould.	
219			<i>inequalis</i> Say, e. l.	N. J. & Maryland.
219			<i>elevata</i> Say, e. l.	Southern Coast.
219			<i>Mortoni</i> Conrad, e. l.	Coast of N. & S. C.
220			<i>fluctuosa</i> Gould, e. l.	
220	xxviii	280	Astarte castanea Say.	
			<i>Venus castanea</i> Say.	
			<i>Crassina castanea</i> Conrad.	
			var. <i>picea</i> .	
			var. <i>procera</i> .	
221	xxviii	281	<i>sulcata</i> Montagu.	
			<i>Venus sulcata</i> Montagu.	
			<i>Crassina sulcata</i> Turton.	
			<i>Astarte Danmoniensis</i> Totten.	
221			<i>lactea</i> Broderip & Sowb., e. l.	Grand Banks.
221			? <i>quadrans</i> Gould, e. l.	Massachusetts.

Cycladae.

Page.	Plate.	Fig.	Name.	Locality.
222	xxv	264-65	Cyclas similis Say. <i>C. Saratoga et sulcata</i> Lam.	
223	xxv	261	dubia Say. <i>S. striatula</i> Lam.	
223	xxv	262	partumeia Say. <i>C. cornea</i> (var. 2, 3.) Lam.	
224	xxv	263	rhomboidea Say. <i>elegans</i> Adams.	
224			edentula Say.	
225			transversa Say, e. l.	Kentucky.
225			staminea Conrad, e. l.	
225			elevata Hald., e. l.	New Orleans.
226			Pisidium abruptum Hald., e. l.	Elk river, Md.
226			abditum Hald., e. l.	Lancaster Co., Pa.
226	xxv	266	Cyrena Carolinensis Bosc., e. l.	Carolina.

Saxicavidae.

227	xxxiii	309 a, b	Saxicava distorta Say.	
228	xxviii	282	Petricola pholadiformis Lam. <i>Petricola fornicata</i> Say.	
228	xxviii	283	dactylus Sowerby.	

Mactridae.

229	xxix	286	Mactra solidissima Chemnitz. <i>M. gigantea</i> Lam. <i>Spissula gigantea</i> Gray.	
230	xxix	287	lateralis Say. <i>Mulinia lateralis</i> Gray.	
230			ovalis Gould, e. l.	Northern coast.
230			similis Say, e. l.	R. I., N. Y.?
230			fragilis Chemnitz, e. l. <i>M. oblonga</i> Say.	Georgia.
231			nuculus Conrad, e. l.	New Jersey.
231	xxix	288 a, b	Mesodesma arcata Conrad. <i>Mactra arcata</i> Conrad. <i>deaurata</i> Conrad.	
231			Mactra Jauresii Guérin, e. l.	Grand Banks.
232	xxxi	298	Lutraria canaliculata Say, e. l.	Md. to Florida.
232			lineata Say, e. l. <i>L. papyratia</i> Conrad.	Ga. & Florida.
232			Montacuta bidentata Montagu, e. l.	New Bedford.
232			Kellea rubra Turton, e. l.	New Bedford.
233			Cumingia tellinoides Conrad. <i>Mactra tellinoides</i> Conrad.	

Page.	Plate.	Fig.	Name.	Locality.
233	xxv	267	Gnathodon cuneatum Sowerby, e. l.	Mobile.
233			flexuosum Conrad, e. l. [no description].	
Anatinidæ.				
234	xxxiii	311 a, b	Osteodesma hyalina Conrad.	
			<i>Mya hyalina</i> Conrad.	
			<i>Lyonsia hyalina</i> Conrad.	
			<i>Amphidesma corbuloides</i> Mass. Cat., p. 25.	
235	xxxi	300	Anatina papyracea Say.	
			<i>A. papyratia fragilis</i> Totten.	
236	xxxi	299, 301	Cochlodesma Leana Conrad.	
			<i>Anatina Leana</i> Conrad.	
237	xxviii	284	Thracia Conradi Couth.	
			<i>Thracia declivis</i> Conrad.	
237			Amphidesma flexuosa Lam., e. l.	Massachusetts.
237			transversa Say, e. l.	Long Isl. ? S. C.
237			? punctata Say, e. l.	Southern coast.
237			orbiculata Say, e. l.	Georgia.
238			radiata Say, e. l.	East Florida.
238			lepida Say, e. l.	South Carolina.
238			æqualis Say, e. l.	Southern coast.
Myadæ.				
239	xxxiii	310	Pandora trilineata Say.	
			<i>P. nasuta</i> Sowerby.	
240	xxx	290	Mya arenaria Linn.	
			<i>M. mercenaria</i> Say.	
240			acuta Say, e. l.	Southern coast.
240	xxix	289	truncata Linn., e. l.	Grand Banks.
241	xxviii	285	Corbula contracta Say.	
Solenidæ.				
242	xxxii	313	Solen ensis Lin.	
243	xxxiii	312	viridis Say, e. l.	Southern coast.
243	xxxii	307	Lepton fabagella Conrad, e. l.	Rhode Island.
243	xxxii	302	Solecurtus caribæus Lam.	
			<i>Solen caribæus</i> Lam.	
244			fragilis Montagu, e. l.	Mass., S'n coast.
			<i>S. centralis</i> Say.	
244	xxxii	301	Machæra costata Say.	
			<i>Solen costatus</i> Say.	
			<i>Solecurtus costatus</i> Say.	
245			nitida Gould, e. l.	Massachusetts.
245	xxx	292	Solemya velum Say.	
246	xxx	291	borealis Totten, e. l.	Mass., R. I.

Page.	Plate.	Fig.	Name.	Locality.
246			<i>Panopæa arctica</i> Lam., e. l.	Grand Banks.
246	xxxiii	308	<i>Glycimeris siliqua</i> Lam., e. l.	Grand Banks.
Pholidæ.				
247	xxxii	306	<i>Pholas crispata</i> Linn.	
248	xxxiv	223	<i>truncata</i> Say.	
248			<i>costata</i> Linn., e. l.	Massachusetts.
248			<i>cuneiformis</i> Say, e. l.	Southern coast.
248			<i>oblongata</i> Say, e. l.	Car., Ga., Fla.

Teredinidæ.

249	xxxiv	325	<i>Teredo navalis</i> Linn.
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TUNICATA.

259			<i>Ascidea Manhattensis</i> <i>De Kay.</i>	
259			<i>rustica</i> <i>Lam., e. l.</i>	Northern coast.
259			<i>plicata</i> <i>Lesueur, e. l.</i>	Philadelphia.
259			<i>ovalis</i> <i>Lesueur, e. l.</i>	Philadelphia.
259			<i>lobifera</i> <i>Lesueur, e. l.</i>	Florida.
259			<i>proboscidea</i> <i>Lesueur, e. l.</i>	Florida.
259			<i>intestinalis</i> [no description].	Northern coast.
259			<i>microcosmus</i> [no description].	Nor. coast.
260	xxxiv	324	<i>Boltenia reniformis</i> <i>McLeay.</i>	
			<i>Ascidia clavata</i> <i>Müll. ?</i>	
			<i>globifera</i> <i>Sabine.</i>	

Troost.—Seventh Annual Report on the Geology of Tennessee:
by G. TROOST, M. D. 1844.

LIST OF SHELLS.

Page.		Page.	
40	<i>Unio Æsopus</i> Green.	40	<i>Unio circulus</i> Lea.
40	<i>alatus</i> Say.	40	<i>cælatus</i> Conr.
40	<i>amœnus</i> Lea.	40	<i>clavus</i> Lam.
40	<i>anodontoides</i> Lea.	40	<i>Conradicus</i> Lea.
40	<i>arcæformis</i> Lea.	40	<i>Cooperianus</i> Lea.
40	<i>argenteus</i> Lea.	40	<i>cornutus</i> Barnes.
40	<i>asperimus</i> Lea.	40	<i>crassidens</i> Lam.
40	<i>Barnesianus</i> Lea.	40	<i>crassus</i> Say.
40	<i>biangulatus</i> Lea.	40	<i>creperus</i> Lea.
40	<i>Bigbyensis</i> Lea.	40	<i>Cumberlandicus</i> Lea.
40	<i>brevidens</i> Lea.	40	<i>cuneolus</i> Lea.
40	<i>capsæformis</i> Lea.	40	<i>cylindricus</i> Say.

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40	<i>Unio dactylus</i> Lea.
40	<i>dehiscens</i> Say.
40	<i>dolabelloides</i> Lea.
40	<i>dromas</i> Lea.
40	<i>ebenus</i> Lea.
40	<i>Edgarianus</i> Lea.
40	<i>elegans</i> Lea.
40	<i>ellipsis</i> Lea.
40	<i>fabalis</i> Lea.
40	<i>fatuus</i> Lea.
40	<i>foliatus</i> Hldr.
40	<i>fragosus</i> Contr.?
40	<i>gibbosus</i> Barnes.
40	<i>gibber</i> Lea.
40	<i>glaber</i> Lea.
40	<i>glans</i> Lea.
40	<i>gracilis</i> Barnes.
40	<i>Haysianus</i> Lea.
40	<i>Holstonensis</i> Lea.
40	<i>interruptus</i> Lea.
40	<i>iris</i> Lea.
40	<i>irroratus</i> Lea.
40	<i>lachrymosus</i> Lea.
40	<i>lenior</i> Lea.
40	<i>lens</i> Lea.
41	<i>Lesueurianus</i> Lea.
41	<i>lienosus</i> Contr.?
41	<i>Menkeianus</i> Lea.
41	<i>mcestus</i> Lea.
41	<i>metanever</i> Raf.
41	<i>Muhlfeldtianus</i> Lea.
41	<i>multiplicatus</i> Lea.
41	<i>multiradiatus</i> Lea.
41	<i>mytiloides</i> Raf.
41	<i>monodontus</i> Say.
41	<i>Nashvillianus</i> Lea.
41	<i>nitens</i> Lea.
41	<i>notatus</i> Lea.
41	<i>obscurus</i> Lea.
41	<i>occidens</i> Lea.
41	<i>ochraceus</i> Say?
41	<i>orbiculatus</i> Hldr.?
41	<i>ovatus</i> Say.
41	<i>parvus</i> Barnes.
41	<i>patulus</i> Lea.

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41	<i>Unio pectorosus</i> Contr.
41	<i>perdix</i> Lea.
41	<i>perplexus</i> Lea.
41	<i>personatus</i> Say.
41	<i>phaseolus</i> Hldr.
41	<i>pictus</i> Lea.
41	<i>pilaris</i> Lea.
41	<i>plicatus</i> Les.
41	<i>pulcher</i> Lea.
41	<i>pustulatus</i> Lea.
41	<i>pustulosus</i> Lea.
41	<i>pyramidatus</i> Lea.
41	<i>Ravenellianus</i> Lea.
41	<i>rectus</i> Lam.
41	<i>regularis</i> Lea.
41	<i>retusus</i> Lam.
41	<i>rubiginosus</i> Lea.
41	<i>securis</i> Lea.
41	<i>simus</i> Lea.
41	<i>Sowerbianus</i> Lea.
41	<i>sparsus</i> Lea.
41	<i>Stonensis</i> Lea.
41	<i>subrotundus</i> Lea.
41	<i>subtentus</i> Say.
41	<i>sulcatus</i> Lea.
41	<i>tener</i> Lea.
41	<i>Tennesseensis</i> Lea.
41	<i>triangularis</i> Barnes.
41	<i>trigonus</i> Lea.
41	<i>Troostensis</i> Lea.
41	<i>tuberculatus</i> Barnes.
41	<i>tuberosus</i> Lea.
41	<i>undulatus</i> Barnes.
41	<i>Vanuxemensis</i> Lea.
41	<i>varicosus</i> Lea.
41	<i>ventricosus</i> Barnes.
41	<i>verrucosus</i> Barnes.
41	<i>Zeiglerianus</i> Lea.
41	<i>zig-zag</i> Lea.
41	<i>Margaritana complanata</i> Lea.
41	<i>Curreyiana</i> Lea.
41	<i>deltoidea</i> Lea.
41	<i>fabula</i> Lea.
41	<i>Holstonia</i> Lea.

Page.		Page.	
41	<i>Margaritana marginata</i> Lea.	42	<i>Melania globula</i> Lea.
41	<i>Raveneliana</i> Lea.	42	<i>gracilis</i> Lea.
41	<i>rugosa</i> Lea.	42	<i>Holstonia</i> Lea.
41	<i>Anodonta argentea</i> Lea.	42	<i>monozonalis</i> Lea.
41	<i>Harpethensis</i> Lea.	42	<i>nitens</i> Lea.
41	<i>marginata</i> Lea.	42	<i>nodulosa</i> Lea.
42	<i>Melania acuta</i> Lea.	42	<i>obtusa</i> Lea.
42	<i>acuto-carinata</i> .	42	<i>Ocoecensis</i> Lea.
42	<i>armigera</i> Say.	42	<i>pilula</i> Lea.
42	<i>blanda</i> Lea.	42	<i>plicatula</i> Lea.
42	<i>caliginosa</i> Lea.	42	<i>regularis</i> Lea.
42	<i>castanea</i> Lea.	42	<i>rufa</i> Lea.
42	<i>Cincinnatiensis</i> Lea.	42	<i>sordida</i> Lea.
42	<i>circincta</i> Lea.	42	<i>spixiana</i> Lea.
42	<i>clavæformis</i> Lea.	42	<i>striata</i> Lea.
42	<i>columella</i> Lea.	42	<i>strigosa</i> Lea.
42	<i>concinna</i> Lea.	42	<i>subcylindracea</i> Lea.
42	<i>corrugata</i> Lea.	42	<i>subglobosa</i> Lea.
42	<i>costulata</i> Lea.	42	<i>subsolida</i> Lea.
42	<i>crebricostata</i> Lea.	42	<i>sulcosa</i> Lea.
42	<i>Curreyana</i> Lea.	42	<i>tenebrosa</i> Lea.
42	<i>decora</i> Lea.	42	<i>terebralis</i> Lea.
42	<i>dubiosa</i> Lea.	42	<i>teres</i> Lea.
42	<i>Duttoniana</i> Lea.	42	<i>Troostiana</i> Lea.
42	<i>ebenum</i> Lea.	42	<i>venusta</i> Lea.
42	<i>Edgariana</i> Lea.	42	<i>virgata</i> Lea.
42	<i>elongata</i> Lea.	42	<i>Io fusiformis</i> Lea.
42	<i>exarata</i> Lea.	42	<i>spinosa</i> Lea.
42	<i>fuliginosa</i> Lea.	42	<i>Polygyra Dorfeuilliana</i> Lea.
42	<i>fusiformis</i> Lea.	42	<i>Troostiana</i> Lea.

Plummer.—Scraps in Natural History (Mollusca): by Dr. JOHN T. PLUMMER. (Amer. Journ. Sci. and Art, O. S., vol. xlviii, No. 1, pp. 93-96. Oct.-Dec. 1844.)

Together with notes on the habits of Mollusks, is the following list of the shells about Richmond, Wayne Co., Indiana:—

Page.		Page.	
95	<i>Helix albolabris</i> Say.	95	<i>Helix fallax</i> Say.
95	<i>arborea</i> Say.	95	<i>fraterna</i> Say.
95	<i>alternata</i> Say.	95	<i>fuliginosa</i> Griff.
95	<i>clausa</i> Say.	95	<i>hirsuta</i> Say.
95	<i>elevata</i> Say.	95	<i>inflecta</i> Say.

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	Page.
<i>Paludina limosa Say.</i>	96
<i>lapidaria Say.</i>	96
<i>Physa heterostrophæ Say.</i>	96
<i>gyrina Say.</i>	96
<i>Limnea elodes Say.</i>	96
<i>Melania exilis Hald.</i>	96
<i>Succinea obliqua Say (campestris).</i>	96
<i>Anodonta Ferussaciana Lea.</i>	96
<i>Cyclas similis Say.</i>	96
<i>Alasmodonta edentula Say.</i>	96
<i>calceola Lea.</i>	96

Linsley.—Catalogue of the Shells of Connecticut: by the late JAMES H. LINSLEY. (Amer. Journ. Sci. and Art, O. S., vol. xviii, No. 2, pp. 271–286. Jan.–March, 1845. Same in pamphlet form, p. 1 being same as p. 271 of the Journal and so on.)

[No descriptions are given, but references to works and habitat. I omit *Annulata* and *Cirripeda*.—W. G. B.]

Page.		Page.	
273	<i>Teredo navalis Linn.</i>	274	<i>Macra lateralis Say.</i>
273	— (n. sp.)	274	<i>quadrangulata Linsley.</i> (Conn. to Georgia.)
273	<i>Pholas crispata Linn.</i>	274	<i>Solemya borealis Totten.</i>
273	<i>cuneiformis Say.</i>	274	<i>velum Say.</i>
273	<i>truncata Say.</i>	274	<i>Mesodesma arctata Gould.</i> <i>Macra arctata Conr.</i>
274	<i>Solen ensis Linn.</i>	274	<i>Montacuta bidentata Mont.</i>
274	<i>viridis Say.</i>	275	<i>Amphidesma æquale Say.</i>
274	<i>Solecurtus Caribæus Lam.</i>	275	<i>Kellia rubra Turton.</i>
274	(<i>Machæra</i>) <i>costatus Gould.</i>	275	<i>Corbula contracta Say.</i>
274	<i>fragilis Conr.</i>	275	<i>Pandora trilineata Say.</i>
274	<i>Mya arenaria Linn.</i> (<i>mercenaria Say.</i>)	275	<i>Saxicava distorta Say.</i>
274	<i>subtruncata Linsley.</i>	275	<i>Petricola dactylus.</i>
274	<i>Anatina papyracea Say.</i>	275	<i>pholadiformis Lam.</i>
274	<i>Thracia truncata Mighels.</i>	275	<i>Sanguinolaria fusca Conr.</i>
274	<i>Osteodesma hyalina Conr.</i>	275	<i>sordida Couth.</i>
274	<i>Cochlodesma Leana Conr.</i>	275	<i>Tellina Balthica Linn.</i> <i>Sanguinolaria fusca.</i>
274	<i>Cumingia tellinoides Conr.</i>	275	<i>solidula Soland.</i>
274	<i>Macra similis Say.</i>	275	<i>tenera Say.</i>
274	<i>solidissima Chemn.</i>	275	<i>tenta Say.</i>
	<i>M. gigantea Lam.</i>		

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275	<i>Tellina versicolor</i> Cozens.	277	<i>Anodonta areolata</i> Swains.
275	<i>Lucina flexuosa</i> Mont.	277	<i>fluviatilis</i> Dillwyn.
275	<i>radula</i> Mont.	277	<i>Housatonica</i> Linsley.
275	<i>Astarte castanea</i> Say.	277	<i>implicata</i> Say.
275	<i>mastracea</i> Linsley.	277	<i>marginata</i> Say.
	(With a wood-cut.)	277	<i>undulata</i> Say.
275	<i>quadrans</i> Gould.	277	<i>subcylindracea</i> Lea.
275	<i>sulcata</i> Mont.	277	<i>Modiola discors</i> Lam.
276	<i>Cyclas dubia</i> Say.	278	<i>glandula</i> Totten.
276	<i>elegans</i> Adams.	278	<i>modiolus</i> Turton.
276	<i>minor</i> Mighels.	278	<i>nexa</i> Gould.
276	<i>nitida</i> Mighels.	278	<i>plicatula</i> Lam.
276	<i>orbicularia</i> Barratt.	278	<i>Mytilus edulis</i> Linn.
276	<i>partumeia</i> Say.	278	<i>striatus</i> De Kay.
276	<i>rhomboidea</i> Say.		<i>M. pellucidus</i> Pennant.
276	<i>similis</i> Say.	278	<i>Pecten concentricus</i> Say.
276	<i>truncata</i> Linsley.	278	<i>Islandicus</i> Chemn.
276	<i>Cyprina Islandica</i> Lam.	278	<i>fuscus</i> Linsley.
276	<i>Cytherea convexa</i> Say.	278	<i>Ostrea borealis</i> Lam.
276	<i>morruana</i> Linsley.	278	<i>costata</i> De Kay.
276	<i>Venus gemma</i> Totten.	278	<i>Virginica</i> Gmel.
276	<i>mercenaria</i> Say.	278	<i>Anomia aculeata</i> Gmel.
276	<i>notata</i> Say.	278	<i>electricia</i> Linn.
276	<i>Cardium Groenlandicum</i>	278	<i>ephippium</i> Linn.
	Chemn.	278	<i>squamula</i> Linn.
276	<i>Mortoni</i> Conr.	278	<i>Chiton fulminatus</i> Couth.
276	<i>pinnulatum</i> Conr.		<i>C. lævigatus</i> Fleming?
276	<i>Cardita borealis</i> Conr.	278	<i>ruber</i> Lowe.
276	<i>Arca pexata</i> Say.	278	<i>Patella</i> — ?
276	<i>transversa</i> Say.	279	<i>Lottia alveus</i> Conr.
276	<i>Nucula limatula</i> Say.	279	<i>testudinalis</i> Müller.
277	<i>proxima</i> Say.	279	<i>Crepidula alata</i> Lea.
277	<i>sapotilla</i> Gould.	279	<i>convexa</i> Say.
277	<i>tenuis</i> Turton.	279	<i>depressa</i> Say.
277	<i>Unio cariosus</i> Say.	279	<i>fornicata</i> Lam.
277	<i>complanatus</i> Solander.	279	<i>glauca</i> Say.
277	<i>compressus</i> Lea.	279	<i>plana</i> Say.
277	<i>heterodon</i> Lea.	279	<i>Ancylus fuscus</i> Adams.
277	<i>nasutus</i> Say.	279	<i>rivularis</i> Say.
277	<i>ochraceus</i> Say.	279	<i>tardus</i> Say.
277	<i>Pequottinus</i> Linsley.	279	<i>Bulla debilis</i> Gould.
277	<i>radiatus</i> Barnes.	279	<i>insculpta</i> Totten.
277	<i>Alasmodonta arcuata</i> Barn.	279	<i>obstricta</i> Gould.
277	<i>marginata</i> Say.	279	<i>oryza</i> Totten.
277	<i>undulata</i> Say.	279	<i>triticea</i> Couth.

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279	<i>Limax campestris</i> Binney.	281	<i>Cyolostoma lapidaria</i> Say.
279	<i>marmorata</i> De Kay.	281	<i>Planorbis armigerus</i> Say.
279	<i>tunicata</i> Gould.	281	<i>bicarinatus</i> Say.
	<i>L. agrestis</i> Linn.	281	<i>campanulatus</i> Say.
279	<i>Helix albilabris</i> Say.	281	<i>deflectus</i> Say.
279	<i>alternata</i> Say.	282	<i>dilatatus</i> Gould.
280	<i>arborea</i> Say.	282	<i>elevatus</i> Adams.
280	<i>chersina</i> Say.	282	<i>exacutus</i> Say.
280	<i>cellaria</i> Müller.	282	<i>hirsutus</i> Gould.
280	<i>electrina</i> Gould.	282	<i>lentus</i> Say.
280	<i>fraterna</i> Say.	282	<i>obliquus</i> De Kay.
280	<i>fuliginosa</i> Griffiths.	282	<i>parvus</i> Say.
280	<i>gularis</i> Say.	282	<i>trivolvus</i> Say.
280	<i>hirsuta</i> Say.	282	<i>Physa aurea</i> Lea =
280	<i>indentata</i> Say.		<i>heterostrophæ</i> var.
280	<i>lineata</i> Say.	282	<i>elongata</i> Say.
280	<i>labyrinthica</i> Say.		<i>P. hypnorum</i> Linn.
280	<i>minuscula</i> Binney.	282	<i>heterostrophæ</i> Say.
280	<i>Trumbulli</i> Linsley.	282	<i>Sayi</i> Tappan =
	(With a description.)		<i>ancillaria</i> var.
	<i>Margarita arctica</i> ? Eds.	282	<i>Lymnæa caperata</i> Say.
280	<i>monodon</i> Rackett.		<i>L. umbilicata</i> Adams.
280	<i>pulchella</i> Müller.	282	<i>chalybea</i> Gould.
280	<i>Sayii</i> Binney.	282	<i>columella</i> Say.
280	<i>suppressa</i> Say.	282	<i>decollata</i> Mighels.
280	<i>striatella</i> Anthony.	282	<i>desidiosa</i> Say.
280	<i>subglobosa</i> ? Binney.	282	<i>elodes</i> Say.
280	<i>tridentata</i> Say.	282	<i>emarginata</i> Say.
280	<i>upa contracta</i> Say.	282	<i>Linsleyi</i> De Kay.
280	<i>corticaria</i> Say.		(With a description).
280	<i>pentodon</i> Say.	282	<i>macrostoma</i> Say.
281	<i>exigua</i> Say.	283	<i>modicellus</i> Say.
281	<i>fallax</i> Say.		<i>L. humilis</i> Hald.
	<i>Cyclostoma marginata</i> S.	283	<i>Valvata pupoidea</i> Gould.
281	<i>Gouldii</i> Binney.	283	<i>tricarinata</i> Say.
281	<i>milium</i> Gould.	283	<i>unicarinata</i> De Kay.
281	<i>modesta</i> Say.	283	<i>Paludina decisa</i> Say.
281	<i>ovata</i> Say.	283	<i>integra</i> Say.
281	<i>simplex</i> Gould.		<i>P. microstoma</i> Kirtland.
281	<i>Bulinus lubricus</i> Brug.	283	<i>lustrica</i> ? Say.
281	<i>Succinea avara</i> Say.		<i>Amnicola</i> Gould.
281	<i>campestris</i> Say.	283	<i>Amnicola Cincinnatiensis</i>
281	<i>ovalis</i> Say.		<i>grana</i> Say. [Anthony.
281	<i>Auricula bidentata</i> Say.	283	<i>porata</i> Say.
281	<i>denticulata</i> Mont.	283	<i>pallida</i> Hald.

Page.		Page.	
283	<i>Natica duplicata</i> Say.	284	<i>Odostomia trifida</i> Gould.
283	<i>flava</i> Gould.		<i>Actæon</i> Totten.
283	<i>heros</i> Say.	284	<i>Cerithium nigrocinctum</i>
283	<i>immaculata</i> Totten.		Adams.
283	<i>triseriata</i> Say.	285	<i>Sayi</i> Menke.
283	<i>Tornatella puncto-striata</i>	285	<i>Pleurotoma bicarinata</i> Cou.
	Adams.	285	<i>Fasciolaria ligata</i> Mighels &
283	<i>Vermetus lumbricalis</i> Lam.		Adams.
283	<i>Scalaria clathrus</i> Say.	285	<i>Fusus borealis</i> De Kay.
283	<i>Margarita obscura</i> Couth.	285	<i>corneus</i> Say (young).
283	<i>Turbo multilineatus</i> DeKay.	285	<i>imbricatus</i> De Kay.
284	<i>Lacuna neritoidea</i> Gould.	285	<i>harpularius</i> ? Couth.
284	<i>vincta</i> Mont.	285	<i>Trumbulli</i> Linsley.
	<i>L. fusca</i> De Kay.		(With desc. & wood-cut.)
284	— ?	285	<i>Pyrrula canaliculata</i> Brug.
284	<i>Cingula aculeus</i> Gould.	285	<i>carica</i> Brug.
284	<i>arenaria</i> Mont.	285	<i>Ranella caudata</i> Say.
284	<i>minuta</i> Totten.	285	<i>Purpura lapillus</i> Say.
284	<i>Littorina irrorata</i> Say.	285	<i>Buccinum lunatum</i> Say.
284	<i>neritoides</i> De Kay.	285	<i>obsoletum</i> Say.
284	<i>pallida</i> Say.	285	<i>plicosum</i> Menke.
284	<i>rudis</i> Mont.	285	<i>rosaceum</i> Gould.
284	<i>tenebrosa</i> Mont.	285	<i>trivittatum</i> Say.
284	<i>Pyramis striatula</i> Couth.	285	<i>undatum</i> Linn.
284	<i>Turritella erosa</i> ? Couth.	285	<i>vibex</i> Say.
284	<i>interrupta</i> Totten.	285	<i>zonalis</i> Linsley.
284	<i>Odostomia exigua</i> Couth.	285	<i>Columbella avara</i> Say.
284	<i>fusca</i> Adams.	286	<i>Nautilus Connecticutensis</i>
284	<i>limnoidea</i> De Kay.		Linsley. (With a wood-cut.)
284	<i>producta</i> Adams.	286	<i>Loligo illecebrosa</i> Lesueur.
284	<i>seminuda</i> Adams.	286	<i>punctata</i> De Kay.

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[No descriptions are given.]

Page.	No.	Name.	Locality.
1	1	<i>Dentalium dentale</i> Linn.	
1	2	<i>entalis</i> Linn.	Maine.
2	30	<i>Teredo navalis</i> Lam.	Staten Island.
2	31	<i>Pholas crispata</i> Linn.	Sandy Hook, N. Y.

Page.	No.	Name.	Locality.
2	32	<i>Pholas costata</i> Linn.	South Carolina.
2	33	<i>cuneiformis</i> Say.	Georgia.
2	34	<i>oblongata</i> Say.	Georgia.
2	35	<i>truncata</i> Say.	Staten Island.
2	36	<i>Gastrochœna modiolina</i> Lam.	South Carolina.
2	37	<i>Solen ensis</i> Linn.	Staten Island.
2	38	<i>viridis</i> Say.	Rhode Island.
2	39	<i>siliqua</i> Linn.	New York bay.
2	40	<i>Solecurtus caribæus</i> Blain.	Sandy Hook, N. Y.
2	41	<i>fragilis</i> Conrad.	New Bedford.
2	42	<i>centralis</i> Conrad.	Georgia.
2	43	<i>Machœra nitida</i> Gould.	Stomach of codfish.
3	44	<i>costata</i> Gould.	Massachusetts bay.
3	45	<i>Panopœa arctica</i> Gould.	Stomach of codfish.
3	46	<i>Glycimeris siliqua</i> Lam.	Provincetown, Mass.
3	47	<i>Mya arenaria</i> Linn.	Staten Island.
3	48	<i>truncata</i> Linn.	Massachusetts bay.
3	49	<i>Anatina papyracea</i> Say.	Rhode Island.
3	50	<i>Cochlodesma Leana</i> Gould.	Staten Island.
3	51	<i>Thracia Conradi</i> Couth.	Massachusetts bay.
3		<i>truncata</i> Mighels.	Maine.
3	52	<i>Osteodesma hyalina</i> Couth.	Staten Island.
3	53	<i>Lutraria canaliculata</i> Say.	South Carolina.
3	54	<i>lineata</i> Say.	South Carolina.
3	55	<i>Cumingia tellinoides</i> Conrad.	New Bedford.
3	56	<i>Mactra lateralis</i> Say.	New York bay.
3	57	<i>similis</i> Say.	South Carolina.
3	58	<i>solidissima</i> Chemn.	Staten Island.
3	59	<i>fragilis</i> Chemn.	South Carolina.
3	60	<i>nucleus</i> Conrad.	New Jersey.
3	61	<i>ovalis</i> Gould.	Massachusetts bay.
3	62	<i>Mesodesma arctata</i> Gould.	Massachusetts bay.
3	63	<i>Jauresii</i> De John.	Massachusetts bay.
3	64	<i>Montacuta bidentata</i> Mont.	New Bedford.
3	65	<i>Kellia rubra</i> Turton.	New Bedford.
4	66	<i>Gnathodon cuneata</i> Gray.	New Orleans.
4	67	<i>flexuosa</i> Conrad.	New Orleans.
4	68	<i>Solemya borealis</i> Totten.	Rhode Island.
4	69	<i>velum</i> Say.	Long Island.
4	70	<i>Amphidesma flexuosa</i> Lam.	Massachusetts.
4	71	<i>orbiculata</i> Say.	Georgia.
4	72	<i>equalis</i> Say.	Georgia.
4	73	<i>punctata</i> Say.	Georgia.
4	74	<i>radiata</i> Say.	Georgia.
4	75	<i>lepida</i> Say.	South Carolina.

Page.		Page.	
283	<i>Natica duplicata</i> Say.	284	<i>Odostomia trifida</i> Gould.
283	<i>flava</i> Gould.		<i>Actron</i> Totten.
283	<i>heros</i> Say.	284	<i>Cerithium nigrocinetum</i>
283	<i>immaculata</i> Totten.		<i>Adams.</i>
283	<i>triseriata</i> Say.	285	<i>Sayi</i> Menke.
283	<i>Tornatella puncto-striata</i>	285	<i>Pleurotoma bicarinata</i> Cou.
	<i>Adams.</i>	285	<i>Fasciolaria ligata</i> <i>Mighels &</i>
283	<i>Vermetus lumbricalis</i> Lam.		<i>Adams.</i>
283	<i>Scalaria clathrus</i> Say.	285	<i>Fusus borealis</i> <i>De Kay.</i>
283	<i>Margarita obscura</i> <i>Couth.</i>	285	<i>corneus</i> Say (young).
283	<i>Turbo multilineatus</i> <i>De Kay.</i>	285	<i>imbricatus</i> <i>De Kay.</i>
283	<i>Lacuna neritoides</i> Gould.	285	<i>harpularius</i> ? <i>Couth.</i>
283	<i>vinota</i> Mont.	285	<i>Trumbullii</i> <i>Linsley.</i>
	<i>L. fusca</i> <i>De Kay.</i>		(With desc. & wood-cut.)
283	— ?	285	<i>Pyrula canaliculata</i> <i>Brug.</i>
283	<i>Cingula aculeus</i> Gould.	285	<i>carica</i> <i>Brug.</i>
283	<i>arenaria</i> Mont.	285	<i>Ranella caudata</i> Say.
283	<i>minuta</i> Totten.	285	<i>Purpura lapillus</i> Say.
283	<i>Littorina irrorata</i> Say.	285	<i>Buccinum lunatum</i> Say.
283	<i>neritoides</i> <i>De Kay.</i>	285	<i>obsoletum</i> Say.
283	<i>pallida</i> Say.	285	<i>plicosum</i> Menke.
283	<i>rudis</i> Mont.	285	<i>rosaceum</i> Gould.
283	<i>tenebrosa</i> Mont.	285	<i>trivittatum</i> Say.
283	<i>Pyramis striatula</i> <i>Couth.</i>	285	<i>undatum</i> <i>Linn.</i>
283	<i>Turritella erosa</i> ? <i>Couth.</i>	285	<i>vibex</i> Say.
283	<i>interrupta</i> Totten.	285	<i>zonalis</i> <i>Linsley.</i>
283	<i>Odostomia exigua</i> <i>Couth.</i>	285	<i>Columbella avara</i> Say.
283	<i>fusca</i> <i>Adams.</i>	286	<i>Nautilus Connecticutensis</i>
283	<i>limacoides</i> <i>De Kay.</i>		<i>Linsley.</i> (With a wood-cut.)
283	<i>producta</i> <i>Adams.</i>	286	<i>Loligo illecebrosa</i> <i>Leveque.</i>
283	<i>seminuda</i> <i>Adams.</i>	286	<i>punctata</i> <i>De Kay.</i>

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[The descriptions are given.]

No.	Sp.	Name.	Locality.
1	1	<i>Dentalium dentale</i> <i>Linn.</i>	
1	2	<i>cutalis</i> <i>Linn.</i>	Maine.
1	30	<i>Teredo navalis</i> <i>Linn.</i>	Staten Island.
1	31	<i>Pholas crispata</i> <i>Linn.</i>	Sandy Hook, N. Y.

Page.	No.	Name.	Locality.
5	121	<i>Cyrtas elegans</i> Adams.	Vermont.
5	122	nitida Mighels.	Maine?
5	123	minor Adams.	Maine?
5	124	atilis Anthony.	Ohio.
6	125	<i>Cyrena Carolinensis</i> Say.	South Carolina.
6	126	<i>Cyprina Islandica</i> Lam.	Rhode Island.
6	127	<i>Cytherea concentrica</i> Lam.	Virginia.
6	128	gigantea Lam.	Florida.
6	129	florida Lam.	Florida.
6	130	occulta Say.	Southern States.
6	131	convexa Say.	New York.
6	132	<i>Venus elevata</i> Say.	South Carolina.
6	133	exalbida Chemn.	Apalachicola bay.
6	134	fluctuosa Gould.	Massachusetts bay.
6	135	gemma Totten.	Long Island.
6	136	inequalis Say.	Virginia.
6	137	Mortoni Conrad.	Virginia.
6	138	mercenaria Linn.	New York.
6	139	notata Say.	New York.
6	140	præparca Say.	Cape Cod.
6	141	<i>Cardium fasciatum</i> Mont.	South Carolina.
6	142	Grœnlandicum Gmelin.	Maine.
6	143	Islandicum Gmelin.	Maine.
6	144	Mortoni Conrad.	Rhode Island.
6	145	pinnulatum Conrad.	Massachusetts bay.
6	146	muricatum Linn.	South Carolina.
6	147	ventricosum Brug.	South Carolina.
6	148	<i>Cardita borealis</i> Conrad.	Massachusetts bay.
6	149	incrassata Sowerby.	Florida.
6	150	tridentata Say.	South Carolina.
6	151	<i>Arca ponderosa</i> Say.	Florida.
6	152	pexata Say.	New York.
6	153	incongrua Say.	Georgia.
6	154	transversa Say.	New York.
7	155	zebra Say.	Florida.
7	156	<i>Nucula Jacksonii</i> Gould.	Maine.
7	157	limatula Say.	New York bay.
7	158	minuta Gould.	Nahant.
7	159	myalis Crink.	Massachusetts bay.
7	160	navicularia Crink.	Plymouth, Mass.
7	161	proxima Say.	New Bedford.
7	162	sagittilla Gould.	Cape Cod.
7	163	tenax Gould.	Massachusetts bay.
7	164	thraciaformis Stew.	Stomach of fish.
7	165	delphinodonta Mighels.	Maine.

Page.	No.	Name.	Locality.
4	76	<i>Amphidesma transversa</i> Say.	Georgia.
4	77	<i>Corbula contracta</i> Say.	New Bedford.
4	78	<i>Pandora trilineata</i> Say.	Staten Island.
4	79	<i>Saxacava rugosa</i> Lam.	Massachusetts bay.
4	80	<i>distorta</i> Say.	Massachusetts bay.
4	81	<i>rhomboides</i> Desh.	Massachusetts bay.
4	82	<i>Petricola pholadiformis</i> Lam.	Staten Island.
4	83	<i>dactylus</i> Say.	New Bedford.
4	84	<i>Sanguinolaria fusca</i> Conrad.	Long Island.
4	85	<i>rugosa</i> Lam.	Florida.
4	86	<i>lusoria</i> Conrad.	New Jersey.
4	87	<i>sordida</i> Gould.	Massachusetts bay.
4	88	<i>Tellina alternata</i> Say.	South Carolina.
4	89	<i>polita</i> Say.	South Carolina.
4	90	<i>iris</i> Say.	South Carolina.
4	91	<i>flexuosa</i> Say.	South Carolina.
4	92	<i>tenera</i> Say.	New Jersey.
4	93	<i>interstriata</i> Say.	Florida.
5	94	<i>lateralis</i> Say.	New Jersey.
5	95	<i>decora</i> Say.	Florida.
5	96	<i>mera</i> Say.	Massachusetts bay.
5	97	<i>tenta</i> Say.	Massachusetts bay.
5	98	<i>calcaria</i> Say.	Massachusetts bay.
5	99	<i>nasuta</i> Conrad.	Columbia river.
5	100	<i>versicolor</i> Cozzens.	New York bay.
5	101	<i>Lucina divaricata</i> Lam.	Rhode Island.
5	102	<i>contracta</i> Say.	Massachusetts bay.
5	103	<i>radula</i> Lam.	Massachusetts bay.
5	104	<i>flexuosa</i> Gould.	Massachusetts bay.
5	105	<i>Donax variabilis</i> Say.	Georgia.
5	106	<i>fossor</i> Say.	Long Island.
5	107	<i>Capsa lævigata</i> Lam.	Florida.
5	108	<i>Astarte castanea</i> Say.	Staten Island.
5	109	<i>lactea</i> Br. & Soub.	Stomach of fish.
5	110	<i>quadrans</i> Gould.	Stomach of fish.
5	111	<i>sulcata</i> Fleming.	Coast of Maine.
5	112	<i>undata</i> Gould.	Coast of Maine.
5	113	<i>Portlandica</i> Mighels.	Coast of Maine.
5	114	<i>Cyclas similis</i> Say.	Ohio.
5	115	<i>dubia</i> Say.	Ohio.
5	116	<i>rhomboidea</i> Say.	Lake Champlain.
5	117	<i>partumeia</i> Say.	Ohio.
5	118	<i>staminea</i> Conrad.	Alabama.
5	119	<i>edentula</i> Say.	Canandaigua, N. Y.
5	120	<i>transversa</i> Say.	Kentucky.

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8	211	<i>Unio complanatus</i> Lam.	Maine to Florida.
8	212	<i>Congaræus</i> Lea.	Congaree river, S. C.
8	213	<i>confertus</i> Lea.	South Carolina.
8	214	<i>Conradicus</i> Lea.	Western rivers.
8	215	<i>cornutus</i> Barnes.	Ohio.
8	216	<i>cor</i> Conrad.	Alabama.
8	217	<i>crassidens</i> Lam.	Western rivers.
8	218	<i>crocatus</i> Lea.	Savannah river.
8	219	<i>crassus</i> Say.	Western rivers.
8	220	<i>creperus</i> Lea.	Tennessee.
8	221	<i>cuprinus</i> Lea.	Tennessee.
8	222	<i>Cumberlandicus</i> Lea.	Cumberland riv., Ten.
8	223	<i>cuneolus</i> Lea.	Tennessee.
9	224	<i>cylindricus</i> Say.	Western rivers.
9	225	<i>dactylus</i> Lea.	Tennessee.
9	226	<i>decisus</i> Lea.	Alabama.
9	227	<i>declivis</i> Say.	Alabama.
9	228	<i>dehiscens</i> Say.	Ohio.
9	229	<i>dolabelloides</i> Lea.	Tennessee.
9	230	<i>dolabræformis</i> Lea.	Georgia.
9	231	<i>Dorfeullianus</i> Lea.	Ohio.
9	232	<i>dromas</i> Lea.	Tennessee and Ala.
9	233	<i>Duttonianus</i> Lea.	Savannah river.
9	234	<i>Æsopus</i> Green.	Western rivers.
9	235	<i>elegans</i> Lea.	Ohio river.
9	236	<i>ellipsis</i> Lea.	Ohio river.
9	237	<i>exiguus</i> Lea.	Georgia.
9	238	<i>Edgarianus</i> Lea.	Tennessee.
9	239	<i>ellipsiformis</i> Conrad.	Michigan.
9	240	<i>ebenus</i> Lea.	Ohio.
9	241	<i>fabilis</i> Lea.	Ohio.
9	242	<i>Fisherianus</i> Lea.	Maryland.
9	243	<i>foliatus</i> Hild.	Ohio.
9	244	<i>fortuus</i> Lea.	Tennessee.
9	245	<i>folliculatus</i> Lea.	Savannah river.
9	246	<i>fragosus</i> Conrad.	Scioto river Ohio.
9	247	<i>furvus</i> Conrad.	Alabama.
9	248	<i>fuscatus</i> Lea.	Black creek, Florida.
9	249	<i>fulvus</i> Lea.	South Carolina.
9	250	<i>Geddingianus</i> Lea.	South Carolina.
9	251	<i>Georgianus</i> Lea.	Georgia.
9	252	<i>gibber</i> Lea.	Carry Fork river, Tenn.
9	253	<i>gibbosus</i> Barnes.	Western rivers.
9	254	<i>glaber</i> Lea.	Tennessee.
9	255	<i>globosus</i> Lea.	Western rivers.

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9	256	Unio glans <i>Lea.</i>	Ohio.
9	257	gracilis <i>Barnes.</i>	Ohio.
9	258	Greeni <i>Conrad.</i>	Black Warrior river.
9	259	Griffithianus <i>Lea.</i>	South Carolina.
10	260	graniferus <i>Lea.</i>	Ohio.
10	261	Haysianus <i>Lea.</i>	Tennessee.
10	262	heterodon <i>Lea.</i>	Pennsylvania.
10	263	Hembeli <i>Conrad.</i>	Southern rivers.
10	264	Hildrethianus <i>Lea.</i>	Western rivers.
10	265	Holstonensis <i>Lea.</i>	Tennessee.
10	266	Hopetonensis <i>Lea.</i>	Hopeton river, Ga.
10	267	inflatus <i>Lea.</i>	Southwestern rivers.
10	268	irroratus <i>Lea.</i>	Ohio.
10	269	incrasatus <i>Lea.</i>	Georgia.
10	270	interruptus <i>Lea.</i>	Harpeth river, Tenn.
10	271	infucatus <i>Conrad.</i>	Alabama.
10	272	Jayensis <i>Lea.</i>	Florida.
10	273	jejunus <i>Lea.</i>	North Carolina.
10	274	Kirtlandianus <i>Lea.</i>	Ohio.
10	275	Kathrinæ <i>Lea.</i>	Lake Superior.
10	276	levissimus <i>Lea.</i>	Western rivers.
10	277	lachrymosus <i>Lea.</i>	Ohio.
10	278	Lecontianus <i>Lea.</i>	Conochee river, Ga.
10	279	Lesueurianus <i>Lea.</i>	Tennessee.
10	280	lenoir <i>Lea.</i>	Tennessee.
10	281	lineatus <i>Lea.</i>	Georgia.
10	282	luteolus <i>Lam.</i>	Western rivers.
10	283	lienosus <i>Conrad.</i>	Alabama.
10	284	lens <i>Lea.</i>	Western rivers.
10	285	lanceolatus <i>Lea.</i>	North Carolina.
10	286	lugubris <i>Lea.</i>	Georgia.
10	287	multiplicatus <i>Lea.</i>	Western rivers.
10	288	metanever <i>Lea.</i>	Ohio.
10	289	minor <i>Lea.</i>	Lakes George & Monroe, Fla.
10	290	Monroensis <i>Lea.</i>	Lake Monroe, Florida.
10	291	monodontus <i>Say.</i>	Ohio.
10	292	modioliformis <i>Lea.</i>	South Carolina.
10	293	multiradiatus <i>Lea.</i>	Ohio.
10	294	Menkianus <i>Lea.</i>	Harpeth river, Tenn.
11	295	Muhlfeldianus <i>Lea.</i>	Cumberland river.
11	296	maculatus <i>Conrad.</i>	Alabama.
11	297	Masoni <i>Conrad.</i>	Savannah.
11	298	nasutus <i>Say.</i>	East'n & West'n rivs.
11	299	Nashvillianus <i>Lea.</i>	Tennessee.
300		neglectus <i>Lea.</i>	North Alabama.

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11	301	Unio nicestus <i>Lea.</i>	Tennessee.
11	302	nitens <i>Lea.</i>	Tennessee.
11	303	Novi-Eborachi <i>Lea.</i>	Oak Orchard cr., N. Y.
11	304	notatus <i>Lea.</i>	Cumberland river.
11	305	obscurus <i>Lea.</i>	Tennessee.
11	306	obesus <i>Lea.</i>	Yorktown, Va.
11	307	obliquus <i>Lam.</i>	Western rivers.
11	308	occultus <i>Lea.</i>	Black creek, Florida.
11	309	ochraceus <i>Say.</i>	N. J. & Connecticut.
11	310	ovatus <i>Say.</i>	Western rivers.
11	311	oviformis <i>Conrad.</i>	Alabama.
11	312	patulus <i>Lea.</i>	Ohio.
11	313	paulus <i>Lea.</i>	Georgia.
11	314	parvus <i>Barnes.</i>	Ohio.
11	315	perplexus <i>Lea.</i>	Ohio.
11	316	penitus <i>Conrad.</i>	Alabama.
11	317	perdix <i>Lea.</i>	Ohio & Tennessee.
11	318	perovatus <i>Conrad.</i>	Alabama.
11	319	perovalis <i>Conrad.</i>	Alabama.
11	320	personatus <i>Say.</i>	Ohio.
11	321	phaseolus <i>Hild.</i>	Ohio.
11	322	Phillipsii <i>Conrad.</i>	Wabash.
11	323	plicatus <i>Say.</i>	Ohio.
11	324	plenus <i>Lea.</i>	Ohio.
11	325	pictus <i>Lea.</i>	Tennessee.
11	326	pilaris <i>Lea.</i>	Tennessee.
11	327	pileus <i>Lea.</i>	Ohio.
11	328	pyramidatus <i>Lea.</i>	Ohio.
11	329	pustulatus <i>Lea.</i>	Ohio.
11	330	pustulosus <i>Lea.</i>	Ohio.
12	331	purpuratus <i>Lam.</i>	Western rivers.
12	332	pumilis <i>Lea.</i>	Black river, N. C.
12	333	pusillus <i>Lea.</i>	Georgia.
12	334	productus <i>Conrad.</i>	Savannah.
12	335	pulcher <i>Lea.</i>	Tennessee.
12	336	rubiginosus <i>Lea.</i>	Western rivers.
12	337	radiatus <i>Lea.</i>	Lake Champlain.
12	338	Rangianus <i>Lea.</i>	Ohio.
12	339	Ravenelianus <i>Lea.</i>	South Carolina.
12	340	rectus <i>Lam.</i>	South Carolina.
12	341	regularis <i>Lea.</i>	Tennessee.
12	342	retusus <i>Lea.</i>	Western rivers.
12	343	Roanokensis <i>Lea.</i>	North Carolina.
12	344	rotundatus <i>Linn.</i>	Louisiana.
12	345	rubellus <i>Conrad.</i>	Alabama.

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9	256	Unio gians <i>Lea.</i>	Ohio.
9	257	gracilis <i>Barnes.</i>	Ohio.
9	258	Greeni <i>Conrad.</i>	Black Warrior river.
9	259	Griffithianus <i>Lea.</i>	South Carolina.
10	260	graniferus <i>Lea.</i>	Ohio.
10	261	Haysianus <i>Lea.</i>	Tennessee.
10	262	heterodon <i>Lea.</i>	Pennsylvania.
10	263	Hembeli <i>Conrad.</i>	Southern rivers.
10	264	Hildrethianus <i>Lea.</i>	Western rivers.
10	265	Holstonensis <i>Lea.</i>	Tennessee.
10	266	Hopetonensis <i>Lea.</i>	Hopeton river, Ga.
10	267	inflatus <i>Lea.</i>	Southwestern rivers.
10	268	irroratus <i>Lea.</i>	Ohio.
10	269	incrasatus <i>Lea.</i>	Georgia.
10	270	interruptus <i>Lea.</i>	Harpeth river, Tenn.
10	271	infucatus <i>Conrad.</i>	Alabama.
10	272	Jayensis <i>Lea.</i>	Florida.
10	273	jejunus <i>Lea.</i>	North Carolina.
10	274	Kirtlandianus <i>Lea.</i>	Ohio.
10	275	Kathrinæ <i>Lea.</i>	Lake Superior.
10	276	levissimus <i>Lea.</i>	Western rivers.
10	277	lachrymosus <i>Lea.</i>	Ohio.
10	278	Lecontianus <i>Lea.</i>	Conochee river, Ga.
10	279	Lesueurianus <i>Lea.</i>	Tennessee.
10	280	lenoir <i>Lea.</i>	Tennessee.
10	281	lineatus <i>Lea.</i>	Georgia.
10	282	luteolus <i>Lam.</i>	Western rivers.
10	283	lienosus <i>Conrad.</i>	Alabama.
10	284	lens <i>Lea.</i>	Western rivers.
10	285	lanceolatus <i>Lea.</i>	North Carolina.
10	286	lugubris <i>Lea.</i>	Georgia.
10	287	multiplicatus <i>Lea.</i>	Western rivers.
10	288	metanever <i>Lea.</i>	Ohio.
10	289	minor <i>Lea.</i>	Lakes George & Monroe, Fla.
10	290	Monroensis <i>Lea.</i>	Lake Monroe, Florida.
10	291	monodontus <i>Say.</i>	Ohio.
10	292	modioliformis <i>Lea.</i>	South Carolina.
10	293	multiradiatus <i>Lea.</i>	Ohio.
10	294	Menkianus <i>Lea.</i>	Harpeth river, Tenn.
11	295	Muhlfeldianus <i>Lea.</i>	Cumberland river.
11	296	maculatus <i>Conrad.</i>	Alabama.
11	297	Masoni <i>Conrad.</i>	Savannah.
11	298	nasutus <i>Say.</i>	East'n & West'n rivs.
11	299	Nashvillianus <i>Lea.</i>	Tennessee.
11	300	neglectus <i>Lea.</i>	North Alabama.

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22	661	Planorbis glabratus Say.	South Carolina.
22	662	lentus Say.	Ohio.
22	663	megasoma De Kay.	New York island.
22	664	obtusa Lea.	Ohio.
22	665	obliquus De Kay.	New York island.
22	666	parallelus Say.	Upper Missouri.
22	667	regularis Lea.	Western rivers.
22	668	trivolvus Say.	New York.
22	669	var. fallax Hald.	Massachusetts.
22	670	parvus Hald.	Massachusetts.
22	671	antrosus Conrad.	Alabama.
22	672	lens Lea.	Ohio.
22	673	elevatus Adams.	New York.
22	674	hirsutus Gould.	New Bedford.
22	675	virens Adams.	New Bedford.
22	676	Physa ancillaria Say.	New York.
22	677	aurea Lea.	Virginia.
22	678	distorta Hald.	Ohio.
22	679	elongata Say.	Western States.
22	680	elliptica Lea.	Ohio.
22	681	gyrina Say.	Georgia.
22	682	heterostropha Say.	Maine to Missouri.
22	683	Hildrethiana Lea.	Illinois.
22	684	inflata Lea.	Virginia.
22	685	microstoma Hald.	Ohio.
22	686	obesa Mighels.	Maine.
22	687	plicata De Kay.	New York island.
22	688	pomilia Conrad.	Alabama.
22	689	Sayii Tappan.	Ohio.
22	690	Troostiana Lea.	Tennessee.
22	691	fragilis Mighels.	Maine.
22	692	Lymnaea acuta Lea.	Philadelphia.
22	693	apicina Lea.	Oregon.
22	694	appressa Say.	Lake Champlain.
22	695	bulimoides Lea.	Oregon.
22	696	catacopsis Say.	Middle States.
22	697	caperata Say.	Indiana.
22	698	columella Say.	Indiana.
22	699	coarctata Lea.	Newport, R. I.
22	700	costa Lea.	Ohio.
22	701	chalybea Gould.	New York.
22	702	corta Lea.	Ohio.
22	703	decidua Say.	New York to Ohio.
22	704	decidua Mighels.	Portland, Me.
22	705	elodes Say.	Western States.

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12	346	Unio Sayii <i>Tappan.</i>	Wisconsin.
12	347	Schoolcraftensis <i>Lea.</i>	Fox river, Green bay.
12	348	securis <i>Lea.</i>	Ohio.
12	349	Shepadianus <i>Lea.</i>	Georgia.
12	350	siliquoides <i>Barnes.</i>	Ohio.
12	351	simus <i>Lea.</i>	Cumberland river.
12	352	Sowerbianus <i>Lea.</i>	Tenn. & Alabama.
12	353	solidus <i>Lea.</i>	Ohio.
12	354	Sloatianus <i>Lea.</i>	Georgia.
12	355	spinosus <i>Lea.</i>	Alabama & Georgia.
12	356	splendidus <i>Lea.</i>	Altamaha river.
12	357	sparsus <i>Lea.</i>	Tennessee.
12	358	stapes <i>Lea.</i>	Ohio & Alabama.
12	359	Stonensis <i>Lea.</i>	Tennessee.
12	360	strigosus <i>Lea.</i>	Georgia.
12	361	striatus <i>Lea.</i>	Georgia.
12	362	stramineus <i>Conrad.</i>	Alabama.
12	363	subrotundus <i>Lea.</i>	Ohio.
12	364	subplanus <i>Conrad.</i>	Virginia.
12	365	subangulatus <i>Lea.</i>	Georgia.
13	366	subovatus <i>Lea.</i>	Ohio river.
13	367	subtentus <i>Say.</i>	Southern rivers.
13	368	sulcatus <i>Lea.</i>	Western rivers.
13	369	trapezoides <i>Lea.</i>	Lake St. Joseph, La.
13	370	Taitianus <i>Lea.</i>	Tennessee.
13	371	Tappanianus <i>Lea.</i>	Troy, N. Y.
13	372	tetralasmus <i>Say.</i>	Louisiana.
13	373	tenuissimus <i>Lea.</i>	Western rivers.
13	374	tenerus <i>Raf.</i>	Virginia.
13	375	Tennesseensis <i>Lea.</i>	Tennessee.
13	376	tener <i>Lea.</i>	Tennessee.
13	377	tortivus <i>Lea.</i>	Georgia.
13	378	tceniatus <i>Conrad.</i>	Flint river, Ga.
13	379	Troostensis <i>Lea.</i>	Tennessee.
13	380	trigonus <i>Lea.</i>	Ohio.
13	381	triangularis <i>Barnes.</i>	Western rivers.
13	382	trosculus <i>Lea.</i>	Lake Monroe, Fla.
13	383	turgidus <i>Lea.</i>	Bayou Teche, La.
13	384	tuberculatus <i>Barnes.</i>	Western rivers.
13	385	undulatus <i>Barnes.</i>	Western rivers.
13	386	varicosus <i>Lea.</i>	Ohio.
13	387	vanuxemensis <i>Lea.</i>	Cumberland river.
13	388	Vaughanlanus <i>Lea.</i>	South Carolina.
13	389	ventricosus <i>Barnes.</i>	Lake Champlain.
13	390	verrucosus <i>Barnes.</i>	Ohio.

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16	481	<i>Ostrea borealis</i> Lam.	New York.
16	482	<i>equestris</i> Say.	Florida.
16	483	<i>costata</i> De Kay.	New York.
16	484	<i>semicylindrica</i> Say.	Florida.
16	485	<i>Virginiana</i> Lister.	New York.
16	486	<i>Anomia ephippium</i> Linn.	New York bay.
16	487	<i>undulata</i> Linn.	Massachusetts bay.
16	488	<i>aculeata</i> Gmelin.	Massachusetts bay.
16	489	<i>squamula</i> Linn.	Massachusetts bay.
16	490	<i>electrica</i> Linn.	Massachusetts bay.
16	491	<i>patellaris</i> Lam.	New York bay.
16	492	<i>Terebratula psittacea</i> Lam.	Coast of Maine.
16	493	<i>caput serpentis</i> Gould.	Massachusetts bay.
16	494	<i>thalasina</i> Gould.	Massachusetts bay.
17	495	<i>Chiton albus</i> Mont.	Massachusetts bay.
17	496	<i>apiculatus</i> Say.	Gardiner's island.
17	497	<i>Emersonii</i> Couth.	Massachusetts bay.
17	498	<i>fulminatus</i> Couth.	Cohasset.
17	499	<i>marginatus</i> Gmelin.	Phillips' beach.
17	500	<i>pectinatus</i> Gould.	Phillips' beach.
17	501	<i>ruber</i> Lowe.	Phillips' beach.
17	502	<i>mendicarius</i> Mighels.	Maine.
17	503	<i>Patella candida</i> Couth.	Massachusetts bay.
17	504	<i>Oregana</i> Nuttall.	Columbia river.
17	505	<i>Patelloida testudinalis</i> Couth.	Massachusetts bay.
17	506	<i>alveus</i> Conrad.	Massachusetts bay.
17	507	<i>Siphonaria alternata</i> Say.	Florida.
17	508	<i>Cemoria Noachina</i> Lam.	Massachusetts bay.
17	509	<i>princeps</i> Mighels.	Maine.
17	510	<i>Calyptræa striata</i> Say.	New Jersey.
17	511	<i>Crepidula fornicata</i> Lam.	New York bay.
17	512	<i>unguiformis</i> Lam.	New York bay.
17	513	<i>intorta</i> Say.	Southern States.
17	514	<i>convexa</i> Say.	Atlantic coast.
17	515	<i>depressa</i> Say.	Southern States.
17	516	<i>glauca</i> Say.	Chelsea beach.
17	517	<i>plana</i> Say.	New York bay.
17	518	<i>Ancylus rivularis</i> Say.	Ohio and New York.
17	519	var. <i>Brunneus</i> Hald.	James river, Va.
17	520	<i>filosus</i> Conrad.	Alabama.
17	521	<i>tardus</i> Say.	Vermont.
17	522	<i>parallelus</i> Hald.	New England.
17	523	<i>fuscus</i> Adams.	Andover, Mass.
18	524	<i>crassus</i> Hald.	Oregon.
18	525	<i>diaphanus</i> Hald.	Ohio.

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18	526	<i>Ancylus depressus</i> Hald.	Holstein river, Va.
18	527	<i>obscurus</i> Hald.	Nolachucky riv., Tenn.
18	528	<i>Bullina canaliculata</i> Say.	St. Simon's island, Ga.
18	529	<i>Bulla debilis</i> Gould.	Massachusetts bay.
18	530	<i>Gouldii</i> Couth.	Massachusetts bay.
18	531	<i>hiemalis</i> Couth.	Massachusetts bay.
18	532	<i>insculpta</i> Totten.	New York bay.
18	533	<i>lineolata</i> Couth.	Massachusetts bay.
18	534	<i>obstricta</i> Gould.	New York bay.
18	535	<i>oryza</i> Totten.	Newport river.
18	536	<i>triticea</i> Couth.	Massachusetts bay.
18	537	<i>pertenuis</i> Mighels.	Maine.
18	538	<i>Vitrina pellucida</i> Drap.	Iowa Territory.
18	539	<i>Helix albolabris</i> Say.	United States.
18	540	<i>alternata</i> Say.	New York to Ohio.
18	541	<i>appressa</i> Say.	Western States.
18	542	<i>arborea</i> Say.	Mass. to Ohio.
18	543	<i>avara</i> Ferussac.	Florida.
18	544	<i>auriculata</i> Lam.	Florida.
18	545	<i>clausa</i> Say.	Western States
18	546	<i>cellaria</i> Müll.	Massachusetts.
18	547	<i>concava</i> Say.	Ohio.
18	548	<i>Columbiana</i> Lea.	Oregon Territory.
18	549	<i>Cumberlandicus</i> Lea.	Tennessee.
18	550	<i>dentifera</i> Binney.	Vermont.
18	551	<i>dealbata</i> Say.	Missouri.
18	552	<i>demissa</i> Say.	Alabama.
18	553	<i>diodonta</i> Say.	Ohio.
18	554	<i>Dorfeuilliana</i> Lea.	Ohio.
18	555	<i>elevata</i> Say.	Western States.
19	556	<i>electrina</i> Gould.	Cambridge, Mass
19	557	<i>Edgarina</i> Lea.	Tennessee.
19	558	<i>egena</i> Say.	Pennsylvania.
19	559	<i>fatigata</i> Binney.	Vermont.
19	560	<i>fraterna</i> Say.	East'n & West'n States.
19	561	<i>fuliginosa</i> Griff.	Ohio.
19	562	<i>glaphyra</i> Say.	Ohio.
19	563	<i>gularis</i> Say.	Ohio.
19	564	<i>hortensis</i> Müll	Portsmouth, N. H.
19	565	<i>harpa</i> Say.	Southwestern States.
19	566	<i>hirsuta</i> Say.	Staten Island.
19	567	<i>inornata</i> Say.	Pennsylvania.
19	568	<i>inflecta</i> Say.	Western States.
19	569	<i>indentata</i> Say.	Ohio.
19	570	<i>interna</i> Say.	Kentucky.

Page.	No.	Name.	Locality.
27	841	<i>Melania striata</i> Lea.	Tennessee.
27	842	<i>subularis</i> Lea.	Niagara Falls.
27	843	<i>subglobosa</i> Say.	Ohio.
27	844	<i>subsolida</i> Lea.	Tennessee.
27	845	<i>subcylindracea</i> Lea.	Tennessee.
27	846	<i>substriata</i> Hald.	Ohio.
27	847	<i>substricta</i> Hald.	Tennessee.
27	848	<i>suturalis</i> Hald.	Tennessee.
27	849	<i>sulcosa</i> Lea.	Tennessee.
27	850	<i>Taitiana</i> Lea.	Clairborne.
27	851	<i>teres</i> Lea.	Tennessee.
27	852	<i>terebralis</i> Lea.	Tennessee.
27	853	<i>tenebrosa</i> Lea.	Tennessee.
27	854	<i>torquata</i> Lea.	Tennessee.
27	855	<i>Troostiana</i> Lea.	Tennessee.
27	856	<i>trochiformis</i> Conrad.	Alabama.
27	857	<i>trilineata</i> Say.	Ohio.
27	858	<i>tuberculata</i> Lea.	Tennessee.
27	859	<i>turgida</i> Lea.	Tennessee.
27	860	<i>undulata</i> Lea.	Ohio.
27	861	<i>Vanuxemensis</i> Lea.	Alabama.
27	862	<i>varicosa</i> Ward.	Ohio.
27	863	<i>vestita</i> Conrad.	Alabama.
27	864	<i>venusta</i> Say.	Tennessee.
27	865	<i>Virginica</i> Say.	Middle States.
27	866	<i>virgata</i> Lea.	Cincinnati.
27	867	<i>viridis</i> Lea.	Cincinnati.
27	868	<i>Wardiana</i> Lea.	Virginia.
27	869	<i>Anculosa angulata</i> Conrad.	Alabama.
28	870	<i>bella</i> Lea.	Alabama.
28	871	<i>carinata</i> Lea.	Roanoke.
28	872	<i>costata</i> Anthony.	Virginia & Ohio.
28	873	<i>dentata</i> Couth.	Potomac.
28	874	<i>dissimilis</i> Say.	Ohio.
28	875	<i>Formanli</i> Lea.	Alabama.
28	876	<i>gibbosa</i> Lea.	Tennessee.
28	877	<i>Griffithiana</i> Lea.	Alabama.
28	878	<i>integra</i> Say.	Alabama.
28	879	<i>isogona</i> Say.	Ohio.
28	880	<i>Kirtlandiana</i> Anthony.	Virginia.
28	881	<i>monodontoides</i> Conrad.	Virginia.
28	882	<i>nigrescens</i> Conrad.	Maryland.
28	883	<i>obovata</i> Lea.	Alabama.
28	884	<i>picta</i> Conrad.	Alabama.
28	885	<i>plicata</i> Conrad.	Tennessee.

Page.	No.	Name.	Locality.
28	886	<i>Anculosa præerosa</i> Say.	Ohio & Tennessee.
28	887	<i>pumilis</i> Conrad.	Black Warrior.
28	888	<i>planulata</i> Lea.	Alabama.
28	889	<i>rubiginosa</i> Lea.	Alabama.
28	890	<i>solida</i> Lea.	Alabama.
28	891	<i>subglobosa</i> Say.	Tennessee.
28	892	<i>tæniata</i> Conrad.	Alabama.
28	893	<i>turgida</i> Hald.	Alabama.
28	894	<i>tuberculata</i> Lea.	Alabama.
28	895	<i>Troostiana</i> Lea.	Tennessee.
28	896	<i>variabilis</i> Lea.	Roanoke.
28	897	<i>Lythasia genicula</i> Lea.	Alabama.
28	898	<i>Schizostoma incisa</i> Lea.	Alabama.
28	899	<i>excisa</i> Lea.	Alabama.
28	900	? <i>Lea</i> (new).	Alabama.
28	901	? <i>Lea</i> (new).	Alabama.
28	902	<i>Io fusiformis</i> Say.	Holstein river, Va.
29	903	<i>spinosa</i> Lea.	Holstein river, Va.
29	904	<i>tenebrosa</i> Lea.	Tennessee.
29	905	<i>Pirena scalariformis</i> Say.	Fresh water lakes and Florida Keys.
29	906	<i>Valvata arenifera</i> .	Schuylkill.
29	907	<i>cinerea</i> Say.	Western States.
29	908	<i>buccata</i> Lea.	Schuylkill.
29	909	<i>humeralis</i> .	
29	910	<i>pupoidea</i> Gould.	Massachusetts.
29	911	<i>tricarinata</i> Say.	Mass. to Missouri.
29	912	<i>unlicarinata</i> De Kay.	Erie canal.
29	913	<i>Paludina angulata</i> Lea.	Alabama.
29	914	<i>bimonilifera</i> Lea.	Alabama.
29	915	<i>Coosaensis</i> Lea.	Coosa river, Ala.
29	916	<i>canaliculata</i> Gould.	Massachusetts.
29	917	<i>cyclostomaformis</i> Lea.	Alabama.
29	918	<i>coarctata</i> Lea.	Alabama.
29	919	<i>decisa</i> Say.	Ohio.
29	920	<i>elongata</i> Swains.	Florida.
29	921	<i>Georgiana</i> Lea.	Georgia.
29	922	<i>grana</i> Say.	Pennsylvania.
29	923	<i>heterostrophæ</i> Tappan.	Ohio.
29	924	<i>hyalina</i> Lea.	Ohio.
29	925	<i>integra</i> Say.	Ohio.
29	926	<i>intertexta</i> Say.	Louisiana.
29	927	<i>incrassata</i> Lea.	Alabama.
29	928	<i>limosa</i> Say.	Western States.
29	929	<i>magnifica</i> Lea.	Georgia.

Page.	No.	Name.	Locality.
29	930	<i>Paludina Nickliniana</i> Lea.	Hot Springs, Va.
29	931	<i>Nuttalliana</i> Lea.	Oregon.
29	932	<i>nuclea</i> Lea.	Oregon.
29	933	<i>obtusa</i> Lea.	Ohio.
29	934	<i>pallida</i> Lea.	Ohio.
29	935	<i>ponderosa</i> Say.	Ohio.
30	936	<i>regularis</i> Lea.	Ohio.
30	937	<i>subcarinata</i> Say.	Ohio.
30	938	<i>subglobosa</i> Say.	Iowa.
30	939	<i>subpurpurea</i> Say.	Illinois.
30	940	<i>transversa</i> Say.	Louisiana.
30	941	<i>Troostiana</i> Lea.	Tennessee.
30	942	<i>unicolor</i> Lam.	South Carolina.
30	943	<i>virens</i> Lea.	Oregon.
30	944	<i>vivipara</i> Lam.	Southern States.
30	945	<i>scalaris</i> Say.	Florida.
30	946	<i>Amnicola albilabris</i> Ward.	Ohio.
30	947	<i>Cincinnatiensis</i> Anthony.	Ohio.
30	948	<i>dentata</i> Say.	Florida.
30	949	<i>lapidaria</i> Say.	Ohio.
30	950	<i>lustrica</i> Say.	Ohio.
30	951	<i>orbiculata</i> Lea.	Ohio.
30	952	<i>porata</i> Say.	Ohio.
30	953	<i>parva</i> Lea.	Ohio.
30	954	<i>pallida</i> Lea.	Massachusetts.
30	955	<i>Sayana</i> Lea.	Ohio.
30	956	<i>gibbosa</i> Anthony.	Ohio.
30	957	<i>tenuipes</i> Hald.	Georgia.
30	958	<i>Ampularia rugosa</i> Lam.	Mississippi.
30	959	<i>depressa</i> Say.	Florida.
30	960	<i>rotundata</i> Say.	Florida.
30	961	<i>Hopetonensis</i> Lea.	Hopeton, Ga.
30	962	<i>Neritina reclinata</i> Say.	Florida.
30	963	<i>Natica alba</i> Say.	Florida.
31	964	<i>canaliculata</i> Gould.	Massachusetts.
31	965	<i>canrena</i> Lam.	Southern coast.
31	966	<i>clausa</i> Brod.	Massachusetts ba
31	967	<i>duplicata</i> Say.	New York.
31	968	<i>heros</i> Say.	New York.
31	969	<i>immaculata</i> Totten.	Maine to New Yo
31	970	<i>flava</i> Gould.	Massachusetts ba
31	971	<i>lunata</i> Say.	Southern coast.
31	972	<i>pusilla</i> Say.	Southern coast.
31	973	<i>triseriata</i> Say.	Atlantic coast.
31	974	<i>Sigaretus haliotolideus</i> Lam.	Massachusetts ba

Page.	No.	Name.	Locality.
31	975	<i>Sigaretus maculatus Say.</i>	Southern coast.
31	976	<i>perspectivus Say.</i>	New Jersey.
31	977	<i>Velutina lævigata Brown.</i>	Cape Ann.
31	978	<i>ovata Brown.</i>	Cape Ann.
31	979	<i>zonata Gould.</i>	Massachusetts bay.
31	980	<i>Odostomia exigua Couth.</i>	Boston bay.
31	981	<i>convoluta Gould.</i>	Massachusetts bay.
31	982	<i>fusca Adams.</i>	Eastern States.
31	983	<i>producta Adams.</i>	Eastern States.
31	984	<i>seminuda Adams.</i>	Eastern States.
31	985	<i>trifida Totten.</i>	Rhode Island.
31	986	<i>Tornatella punctostriata Ad.</i>	New York bay.
31	987	<i>Vermetus lumbricalis Linn.</i>	Newport R. I.
31	988	<i>Janthina communis Lam.</i>	Nantucket.
31	989	<i>fragilis Brug.</i>	New Bedford.
31	990	<i>Scalaria clathrus Say.</i>	Southern coast.
31	991	<i>Grœnlandica.</i>	Massachusetts bay.
31	992	<i>Humphreysii Kiener.</i>	Atlantic coast.
32	993	<i>lineata Say.</i>	Atlantic coast.
32	994	<i>multistriata Say.</i>	Southern coast.
32	995	<i>Novangliæ Couth.</i>	Massachusetts bay.
32	996	<i>Delphinula laxa Say.</i>	South Carolina.
32	997	<i>Skenea serpuloides Adams.</i>	Boston bay.
32	998	<i>Trochus occidentalis Mighels.</i>	Maine.
32	999	<i>Turbo canaliculata Say.</i>	Southern States.
32	1000	<i>Margarita arctica Leach.</i>	Massachusetts bay.
32	1001	<i>argentata Gould.</i>	Cohasset, Mass.
32	1002	<i>acuminata Sowerby.</i>	Maine.
32	1003	<i>cinerea Couth.</i>	Massachusetts bay.
32	1004	<i>obscura Couth.</i>	Nahant.
32	1005	<i>varicosa Mighels.</i>	Maine.
32	1006	<i>undulata Sowerby.</i>	Phillips' beach.
32	1007	<i>Littorina rudis Donv.</i>	Atlantic coast.
32	1008	<i>tenebrosa Mont.</i>	Massachusetts bay.
32	1009	<i>palliata Say.</i>	Atlantic coast.
32	1010	<i>Lacuna fusca Adams.</i>	Massachusetts bay.
32	1011	<i>neritoidea Gould.</i>	Chelsea beach.
32	1012	<i>vineta Mont.</i>	Massachusetts bay.
32	1013	<i>Cingula minuta Totten.</i>	Atlantic coast.
32	1014	<i>aculeus Gould.</i>	Massachusetts bay.
32	1015	<i>semicostata Mont.</i>	Maine.
32	1016	<i>arenaria Mont.</i>	Maine.
32	1017	<i>latior Mighels.</i>	Maine.
32	1018	<i>Pyramis striatula Couth.</i>	Cape Ann.
	1019	<i>fusca Adams.</i>	New Bedford.

Page.	No.	Name.	Locality.
33	1020	<i>Turritella alternata</i> Say.	Atlantic coast.
33	1021	<i>bisuturalis</i> Say.	Massachusetts bay.
33	1022	<i>concava</i> Say.	South Carolina.
33	1023	<i>costulata</i> Mighels.	Maine.
33	1024	<i>erosa</i> Couth.	Massachusetts bay.
33	1025	<i>equalis</i> Say.	South Carolina.
33	1026	<i>impressa</i> Say.	Maryland.
33	1027	<i>interrupta</i> Totten.	Rhode Island.
33	1028	<i>reticulata</i> Mighels.	Maine.
33	1029	<i>Cerithium ferrugineum</i> Say.	Florida.
33	1030	<i>Greenii</i> Adams.	Dartmouth harbor.
33	1031	<i>Emersonii</i> Adams.	New Bedford.
33	1032	<i>nigrocinctum</i> Adams.	New Bedford.
33	1033	<i>terebrata</i> Adams.	New Bedford.
33	1034	<i>muscarium</i> Say.	Florida.
33	1035	<i>septemistriatum</i> Say.	Florida.
33	1036	<i>Sayii</i> Menke.	New Bedford.
33	1037	?	New York bay.
33	1038	<i>Pleurotoma bicarinata</i> Couth.	Massachusetts bay.
33	1039	<i>decussata</i> Couth.	Massachusetts bay.
33	1040	<i>plicata</i> Adams.	Massachusetts bay.
33	1041	<i>violacea</i> Mighels.	Maine.
33	1042	<i>Cancellaria Couthouyi</i> Jay.	Massachusetts bay.
33	1043	<i>Fasciolaria ligata</i> Mighels.	Maine.
33	1044	<i>Fusus Bamffius</i> Fleming.	Massachusetts bay.
33	1045	<i>cinereus</i> Say.	Atlantic coast.
33	1046	<i>cancellatus</i> Mighels.	Maine.
33	1047	<i>decemcostatus</i> Say.	Massachusetts bay.
33	1048	<i>bicolor</i> Say.	Florida.
33	1049	<i>harpularius</i> Couth.	Massachusetts bay.
33	1050	<i>Islandicus</i> Martini.	Massachusetts bay.
34	1051	<i>muricatus</i> Brown.	Massachusetts bay.
34	1052	<i>rufus</i> Gould.	Massachusetts bay.
34	1053	<i>turricula</i> Brown.	Cape Ann.
34	1054	<i>tornatus</i> Gould.	Massachusetts bay.
34	1055	<i>scalariformis</i> Gould.	Massachusetts bay.
34	1056	<i>pygmæus</i> Gould.	Massachusetts bay.
34	1057	<i>ventricosus</i> Gray.	Massachusetts bay.
34	1058	<i>Furula canaliculata</i> Lam.	New York.
34	1059	<i>carica</i> Lam.	New York.
34	1060	<i>perversa</i> Say.	Florida.
34	1061	<i>papyratia</i> Say.	Georgia.
34	1062	<i>spirata</i> Say.	Southern States.
34	1063	<i>Stillmani</i> De Kay.	New York.
34	1064	<i>Ranella candata</i> Say.	New York bay.

Page.	No.	Name.	Locality.
34	1065	<i>Rostellaria occidentalis</i> Beck.	Stomach of fish.
34	1066	<i>Trichotropis borealis</i> Sowerby.	Massachusetts bay.
34	1067	<i>Strombus gigas</i> Linn.	Mobile bay.
34	1068	<i>pyrolatus</i> Lam.	Mobile bay.
34	1069	<i>pugilis</i> Linn.	Florida.
34	1070	<i>Purpura lapillus</i> Lam.	Massachusetts bay.
34	1071	var. <i>imbricata</i> Lam.	Massachusetts bay.
34	1072	var. <i>bizonalis</i> Lam.	Massachusetts bay.
34	1073	<i>Dolium perdix</i> Lam.	Southern coast.
34	1074	<i>olearium</i> Lam.	Southern coast.
34	1075	<i>Cassis flammea</i> Kiener.	North Carolina.
34	1076	<i>saburon</i> Brug.	North Carolina.
34	1077	<i>Buccinum acutum</i> Say.	St. Simon's island.
35	1078	<i>album</i> Say.	Florida.
35	1079	<i>Donovanii</i> Gray.	Maine.
35	1080	<i>ciliatum</i> Gould.	Massachusetts bay.
35	1081	<i>ornatum</i> Say.	Florida.
35	1082	<i>obsoletum</i> Say.	Atlantic coast.
35	1083	<i>rosaceum</i> Gould.	Massachusetts bay.
35	1084	<i>lunatum</i> Say.	Southern States.
35	1085	<i>trivittatum</i> Say.	New York.
35	1086	<i>undatum</i> Linn.	Massachusetts bay.
35	1087	<i>unicinctum</i> Say.	South Carolina.
35	1088	<i>Wheatleyi</i> De Kay.	New York bay.
35	1089	<i>vibex</i> Say.	Massachusetts bay.
35	1090	<i>Terebra Petitti</i> Kiener.	Georgia.
35	1091	<i>Columbella avara</i> Say.	Mass. to Georgia.
35	1092	<i>mercatoria</i> Say.	Florida.
35	1093	<i>Marginella carnea</i> Storer.	Florida.
35	1094	<i>flavida</i> Redfield.	Florida.
35	1095	<i>Oliva conoidalis</i> Lam.	Florida keys.
35	1096	<i>erythostoma</i> Lam.	Florida keys.
35	1097	<i>Sayana</i> Lam.	Florida keys.
35	1098	<i>litterata</i> Say.	Florida keys.
35	1099	<i>textilina</i> Lam.	Florida keys.
35	1100	<i>oryza</i> Lam.	Florida keys.
35	1101	<i>mutica</i> Say.	Southern States.
35	1102	<i>zonalis</i> .	Southern States.
35	1103	<i>Conus leucostricus</i> Gmelin.	Florida keys.
35	1104	<i>mamillaris</i> Green.	Florida keys.
35	1105	<i>Pealeii</i> Green.	Florida keys.
35	1106	<i>mus</i> Brug.	Florida keys.
35	1107	<i>verrucosus</i> Lam.	Florida keys.
35	1108	<i>Spirula Peronii</i> Lam.	Nantucket.

Gould.—Expedition Shells described for the work of the United States Exploring Expedition, commanded by Charles Wilkes, U. S. N.: by AUG. A. GOULD, M. D. Boston, 1846. (Vide Proceedings of the Boston Soc. Nat. Hist., vol. ii.)

(Under this title, Dr. GOULD distributed extras of his papers in Boston Society's Proceedings.)

Redfield.—Description of some New Species of Shells: by JOHN H. REDFIELD. (Annals of N. Y. Lyc. Nat. Hist., vol. iv, No. 5, p. 163. 1846.)

Page.	Plate.	Fig.	Name.	Locality.
105	xi	2	<i>Triton Oregonense</i> Redfield.	Straits of San Juan de Fuca, Oregon.

Gibbes.—Molluscos Animals of South Carolina: by Prof. LEWIS R. GIBBES. (From Appendix to the Geology of South Carolina, 1848. No descriptions are given.)

Page.		Page.	
xix	<i>Octopus granulatus</i> Lam.	xix	<i>Pupa ovata</i> Say.
xix	<i>Loligo brevipenna</i> Les.	xix	<i>pentodon</i> Say.
xix	<i>Spirula Peronii</i> Lam.	xix	<i>Bulimus decollatus</i> L.
xix	<i>Tebennophorus Carolinensis</i> Bosc.	xix	— ?
xix	<i>Limax flavus</i> Linn.	xix	<i>Glandina truncata</i> Gmel.
xix	<i>Helix albolabris</i> Say.	xix	<i>Succinea campestris</i> Say.
xix	<i>major</i> Binn.	xix	<i>ovalis</i> Say.
xix	<i>aspersa</i> Müll.	xix	<i>Auricula bidentata</i> Say.
xix	<i>thyroidus</i> Say.	xix	<i>obliquus</i> Say.
xix	<i>tridentata</i> Say.	xix	<i>Planorbis lentus</i> Say.
xix	<i>fallax</i> Say.	xix	<i>parvus</i> Say.
xix	<i>appressa</i> Say.	xix	<i>glabratus</i> Say.
xix	<i>auriculata</i> Say.	xix	<i>Physa gyrina</i> Say.
xix	<i>Carolinensis</i> Lea.	xx	<i>Limnæus columella</i> Say.
xix	<i>inornata</i> Say.	xx	<i>macrostoma</i> Say.
xix	<i>concava</i> Say.	xx	<i>humilis</i> Say.
xix	<i>alternata</i> Say.	xx	<i>Paludina decisa</i> .
xix	<i>perspectiva</i> Say.	xx	<i>integra</i> Say.
xix	<i>gularis</i> Say.	xx	<i>intertexta</i> Say.
xix	<i>pulchella</i> Müll.	xx	<i>Melania proxima</i> Say.
xix	<i>Pupa rupicola</i> .	xx	<i>catenaria</i> Say.
xix	<i>fallax</i> Say.	xx	<i>atilis</i> Lea.
		xx	<i>Ancylus</i> — ?

Page.		Page.	
xx	<i>Fissurella alternata</i> Say.	xxi	<i>Oliva literata</i> Lam.
xx	<i>Crepidula fornicata</i> Linn.	xxi	<i>mutica</i> Say.
xx	<i>plana</i> Say.	xxi	<i>Unio complanatus</i> Sol.
xx	<i>aculeata</i> Gmel.	xxi	<i>confertus</i> Lea.
xx	<i>Chiton apiculatus</i> Say.	xxi	<i>congaræus</i> Lea.
xx	<i>Bulla solitaria</i> Say.	xxi	<i>fulvus</i> Lea.
xx	<i>canaliculata</i> Say.	xxi	<i>Geddingsianus</i> Lea.
xx	<i>Aplysia</i> ———	xxi	<i>Griffithianus</i> Lea.
xx	<i>Sigaretus perspectivus</i> S.	xxi	<i>jejunus</i> Rav.
xx	<i>Natica pusilla</i> Say.	xxi	<i>palliatu</i> Lea.
xx	<i>duplicata</i> Say.	xxi	<i>Watereensis</i> Lea.
xx	<i>Scalaria clathrus</i> L.	xxi	<i>angustatus</i> Lea.
xx	<i>multistriata</i> Say.	xxi	<i>foliculatus</i> Lea.
xx	<i>lineata</i> Say.	xxi	<i>Vaughanianus</i> Lea.
xx	<i>Littorina irrorata</i> Say.	xxi	<i>modioliformis</i> Lea.
xx	<i>Turritella</i> ——— ?	xxi	<i>tenerus</i> Rav.
xx	<i>Cancellaria reticulata</i> L.	xxi	<i>crocatus</i> Lea.
xx	<i>Pleurotoma pusilla</i> Rav.	xxi	<i>tæniatus</i> Conr.
xx	<i>Fusus cinereus</i> Say.	xxi	<i>Margaritana marginata</i> Say.
xx	<i>Fasciolaria tulipa</i> L.	xxi	<i>Anodon fluviatilis</i> Sol.
xx	<i>distans</i> Lam.		<i>A. cataracta</i> Say.
xx	<i>gigantea</i> Kiener.	xxi	<i>Dunlapiana</i> Lea.
xx	<i>Pyru</i> <i>canaliculata</i> Linn.	xxi	<i>incerta</i> Lea.
xx	<i>carica</i> Lam.	xxi	<i>Cyclas partumeia</i> Say.
xx	<i>perversa</i> Linn.	xxi	<i>Cyrena Carolinensis</i> Bosc.
xx	<i>pyrum</i> Dillw.	xxi	<i>Venus mercenaria</i> L.
xx	<i>Ranella caudata</i> Say.	xxi	<i>notata</i> Say.
xx	<i>Murex</i> ———	xxi	<i>paphia</i> L.
xx	<i>Strombus alatus</i> Gmel.	xxi	<i>elevata</i> Say.
xx	<i>Cassis sulcosa</i> Lam. ?	xxi	<i>Artemis concentrica</i> Born.
xx	<i>Purpura cataracta</i> Chemn.	xxi	<i>Astarte lunulata</i> Conr.
xx	<i>Dolium galea</i> L.	xxi	<i>Lucina tigerina</i> L.
xx	<i>Nassa uncinata</i> Say.	xxi	<i>divaricata</i> L.
xx	<i>obsoleta</i> Say.	xxi	<i>edentula</i> L.
xx	<i>vibex</i> Say.	xxi	<i>Cardita tridentata</i> Say.
xx	<i>trivittata</i> Say.	xxi	<i>Cardium isocardia</i> L.
xx	<i>Terebra clavata</i> Rav.	xxi	<i>muricatum</i> L.
xx	<i>dislocata</i> Say.	xxi	<i>marmoreum</i> Lam.
xx	<i>concava</i> Say.	xxi	<i>ventricosum</i> Brug.
xx	<i>Columbella avara</i> Say.	xxi	<i>Arca incongrua</i> Say.
xx	<i>lunata</i> Say.	xxi	<i>pexata</i> Say.
xx	<i>Voluta junonia</i> Chemn.	xxi	<i>ponderosa</i> Say.
xx	<i>Marginella spiliota</i> Rav.	xxi	<i>transversa</i> Say.
xx	<i>guttata</i> ? Dillw.	xxi	<i>Nucula approxima</i> Say.
xxi	<i>Ovula acicularis</i> Lam.	xxi	<i>acuta</i> Conr.

Page.		Page.	
xxi	<i>Sanguinolaria fusca</i> Say.	xxii	<i>Solen viridis</i> Say.
xxi	<i>lusoria</i> Say.	xxii	<i>Solecurtus caribæus</i> Lam.
xxi	<i>Psammobia Cayennensis</i> Lam.	xxii	<i>fragilis</i> Pult.
xxi	<i>Tellina maculosa</i> Lam.	xxii	<i>Pholas costata</i> Linn.
xxi	<i>alternata</i> Say.	xxii	<i>oblongata</i> Say.
xxi	<i>polita</i> Say.	xxii	<i>truncata</i> Say.
xxi	<i>iris</i> Say.	xxii	<i>semicostata</i> Lea.
xxi	<i>tenera</i> Say.	xxii	<i>cuneiformis</i> Say.
xxi	<i>flexuosa</i> Say.	xxii	<i>Teredo palmulatus</i> ?
xxi	<i>brevifrons</i> Say.	xxii	<i>Chama arcinella</i> Linn.
xxi	<i>Donax variabilis</i> Say.	xxii	<i>Mytilus tulpa</i> Lam.
xxii	<i>Saxicava distorta</i> Say.	xxii	<i>plicatula</i> Lam.
xxii	<i>Petricola pholadiformis</i> Lam.	xxii	<i>cubitus</i> Say.
xxii	<i>dactylus</i> Sowb.	xxii	<i>domingensis</i> Lam.
xxii	<i>Lutraria canaliculata</i> Say.	xxii	<i>lateralis</i> Say.
xxii	<i>lineata</i> Say.	xxii	<i>castanea</i> Say.
xxii	<i>Mactra similis</i> Say.	xxii	<i>lithophaga</i> Linn.
xxii	<i>lateralis</i> Say.	xxii	<i>candigera</i> Lam.
xxii	<i>oblongata</i> Say.	xxii	<i>attenuata</i> Desh.
xxii	<i>tellinoides</i> Contr.	xxii	<i>leucopheatus</i> Contr.
xxii	<i>Amphidesma orbiculata</i> S.	xxii	<i>Pinna muricata</i> Linn.
xxii	<i>equalis</i> Say.	xxii	<i>seminuda</i> Lam.
xxii	<i>lepida</i> Say.	xxii	<i>Avicula Atlantica</i> Lam.
xxii	<i>punctata</i> Say.	xxii	<i>Pecten dislocatus</i> Say.
xxii	<i>Mya arenaria</i> L.	xxii	<i>Plicatula cristata</i> Lam.
xxii	<i>Corbula contracta</i> Say.	xxii	<i>Anomia ephippium</i> Linn.
xxii	<i>Solen ensis</i> L.	xxii	<i>Ostrea Virginiana</i> List.
		xxii	<i>fundata</i> Say.
		xxii	<i>equestris</i> Say.

Western Academy.—Catalogue of the Unios, Alasmodontas, and Anodontas of the Ohio River and its Northern Tributaries, adopted by the Western Acad. of Natural Sciences of Cincinnati, January, 1849.

Page.		Page.	
3	<i>Unio abruptus</i> Say.	3	<i>Unio catillus</i> Contr.
	<i>U. orbiculatus</i> Hild.		<i>U. coccineus</i> ? Hald.
3	<i>Æsopus</i> Green.		<i>Gouldianus</i> Ward
3	<i>alatus</i> Say.		(white naure).
	<i>U. megaptera</i> Raf.	3	<i>cicatricosus</i> Say.
3	<i>anodontoides</i> Lea.		<i>U. varicosus</i> Lea.
	<i>U. teres</i> ? Raf.		

Page.		Page.	
5	Unio circulus Lea.	9	Unio lævissimus Lea.
	<i>U. lens</i> Lea.		<i>Symph. lævissima</i> Lea.
	<i>subrotunda?</i> Raf.	9	lapillus Say.
5	clavus Lam.		<i>U. fabalis</i> Lea.
	<i>U. scalenia</i> Raf.	9	monodontus Say.
	<i>patulus</i> Lea.		<i>U. soleniformis</i> Lea.
5	compressus Lea.	11	multiradiatus Lea.
	<i>Symph. compressa</i> Lea.		<i>U. fuscicola?</i> Raf.
5	Cooperianus Lea.	11	nodosus Barnes.
5	cornutus Barnes.		<i>U. metanevra?</i> Raf.
5	crassus Say.	11	nodulatus Raf.
	<i>U. ellipsaria</i> Raf.		<i>U. pustulatus</i> Lea.
	<i>ellipticus</i> Barnes.	11	ovatus Say.
	<i>carinatus</i> Barnes.	11	parvus Barnes.
	<i>ligamentina</i> Lam.	11	perplexus Lea.
5	cylindricus Say.		<i>U. gibbosa?</i> Raf.
	<i>U. naviformis</i> Lam.	11	personatus Say (female).
	<i>solenoides</i> Raf.		<i>U. capillaris</i> Lea (fem.)
7	cuneatus Barnes.		<i>pileus</i> Lea (male).
	<i>U. nigra</i> Raf.	11	phaseolus Hildr.
7	dehiscens Say.		<i>U. planulatus</i> Lea.
	<i>U. oriens</i> Lea.		<i>camelus</i> Lea.
7	donaciformis Lea.	13	planus Barnes.
	<i>U. zig-zag</i> Lea.		<i>U. leptodon</i> Raf.
7	ebenus Lea.		<i>velum</i> Say (female).
7	elegans Lea.		<i>Anod. purpurascens</i> Swai.
7	ellipsis Lea.		<i>U. tenuissimus</i> Lea.
7	flavus Raf.	13	plicatus Say.
	<i>U. rubiginosus</i> Lea.		<i>U. costata</i> Raf.
	<i>trigonus?</i> Lea.		<i>rariPLICATA</i> Lam.
7	flexuosus Raf. (male).		<i>undulatus</i> Desh.
	<i>U. foliatus</i> Hild. (female).	13	politus Say.
7	fragosus Conr.		<i>U. subrotundus</i> Lea.
9	gibbosus Barnes.	13	pustulosus Lea.
	<i>U. nasutus</i> Lam.		<i>U. verrucosus albus</i> Hild.
	<i>dilatata</i> Raf.	13	Rangianus Lea.
	<i>arctior</i> Lea (white	13	rectus Lam.
	naacre).		<i>U. prælongus</i> Barnes.
9	glans Lea.		<i>latissima</i> Raf.
9	gracilis Barnes.	13	retusus Lam.
	<i>Symph. gracilis</i> Lea.		<i>U. torsa</i> Raf.
9	iris Lea.	15	rugosus Barnes.
	<i>U. subrostratus?</i> Say.		<i>U. quadrula?</i> Raf.
9	irroratus Lea.		<i>lachrymosus</i> Lea.
	<i>U. stegaria?</i> Raf.		<i>asperrimus</i> Lea.

240	<i>Helix</i> <i>albulabris</i> Say.	241	<i>Helix</i> <i>electrica</i> Gould.
240	<i>tridentata</i> Say.	241	<i>chersona</i> Say.
240	<i>thyridens</i> Say.	243	<i>Vitrina</i> <i>limpida</i> Gould (n. s.)
240	<i>alternata</i> Say.		<i>T. palmaria</i> Say.
240	<i>pallida</i> Say.	243	<i>Succinea</i> <i>ovata</i> Gould.
240	<i>monodon</i> Park.	243	<i>obliqua</i> Say.
243	<i>perspectiva</i> Say.	243	<i>avara</i> Say.
243	<i>striatella</i> Anthony.	243	<i>Physa</i> <i>heterostropha</i> Say.
243	<i>concaea</i> Say.	244	<i>vinosa</i> Gould (n. sp., pl.
243	<i>arbores</i> Say.		vii, fig. 10, 11).

Gould.—Synopsis of *Helix* with descriptions of New Species:
in J. A. Gould. From Agassiz's Lake Superior, Boston,
1851.

*Numbers are given, but descriptions of those specified as new.—
W. & L.

Page		Page	
240	<i>Helix</i> <i>albulabris</i> Say.	241	<i>Helix</i> <i>electrica</i> Gould.
240	<i>tridentata</i> Say.	241	<i>chersona</i> Say.
240	<i>thyridens</i> Say.	243	<i>Vitrina</i> <i>limpida</i> Gould (n. s.)
240	<i>alternata</i> Say.		<i>T. palmaria</i> Say.
240	<i>pallida</i> Say.	243	<i>Succinea</i> <i>ovata</i> Gould.
240	<i>monodon</i> Park.	243	<i>obliqua</i> Say.
243	<i>perspectiva</i> Say.	243	<i>avara</i> Say.
243	<i>striatella</i> Anthony.	243	<i>Physa</i> <i>heterostropha</i> Say.
243	<i>concaea</i> Say.	244	<i>vinosa</i> Gould (n. sp., pl.
243	<i>arbores</i> Say.		vii, fig. 10, 11).

Page.		Page.	
244	<i>Physa ancillaria</i> Say.	245	<i>Amnicola grana</i> Say.
244	<i>Limnea jugularis</i> Say.	245	<i>Paludina ponderosa</i> Say.
244	<i>caperata</i> Say.	245	<i>Melania livescens</i> Menke.
244	<i>humilis</i> Say.		<i>M. Niagarensis</i> Lea.
244	<i>catascopium</i> S. (notes).	245	<i>subulata</i> .
244	<i>desidiosa</i> Say.	245	<i>Cyclas similis</i> Say.
244	<i>lanceata</i> Gould (n. sp.,	245	<i>partumeia</i> Say?
	pl. vii, fig. 8, 9).	245	<i>Pisidium dubium</i> S. (notes).
245	<i>Planorbis bicarinatus</i> Say.	245	<i>Unio radiatus</i> Gmel.
245	<i>parvus</i> Say.	245	<i>Anodonta Pepiniana</i> Lea.
245	<i>Valvata tricarinata</i> Say.		

Agassiz.—On the Embryology of Ascidia and the Characteristics of New Species from the Shores of Massachusetts: by Prof. LOUIS AGASSIZ. (Proc. American Assoc. for Advancement of Science, vol. ii, p. 157, 1850.)

Page.		Page.	
159	<i>Ascidia amphora</i> Ag.	159	<i>Ascidia hirsuta</i> Ag.
159	<i>psammophora</i> Ag.	159	<i>rugosa</i> Ag.
159	<i>ocellata</i> Ag.	159	<i>Boltenia microcosmus</i> Ag.
159	<i>carnea</i> Ag.		

Newberry.—Geographical Distribution of certain Species of Fluvial and Terrestrial Shells: by J. S. NEWBERRY, M. D. (Proc. American Assoc. for Advancement of Science, vol. v, p. 105, 1851.)

Page.	Name.	Locality.
105	<i>Limnea gracilis</i> .	Congress Lake, Ohio.
105	<i>jugularis</i> .	Congress Lake, Ohio.
105	<i>Melania gracilis</i> .	Congress Lake, Ohio.
105	<i>Ancylus fuscus</i> .	Congress Lake, Ohio.
105	<i>Helix diodonta</i> .	Congress Lake, Ohio.
105	<i>multilineata</i> .	Congress Lake, Ohio.

Mollusca.—A Classified Catalogue with Synonymy of the Terrestrial and Freshwater Mollusca of Texas. Compiled by W. H. C. SARGENT, M. D., one of the Curators of the Chester County Museum of Natural Science. No. 100, 1900.

Uta complanatus Say.

Uta complanatus Say.

Uta complanatus Say.

U. complanatus Say.

heterodon Lea.

Alismoides Say.

Alismoides Say.

marginata Say.

marginata Say.

marginata Say.

dentata Say.

dentata Say.

dentata Say.

dentata Say.

dentata Say.

dentata Say.

dentata Say.

Anodon grandis Say ('main').

Anodon Lea ('main').

gypsea Lea.

dentata Lea ('main').

dentata Lea ('main').

dentata Lea ('main').

dentata Lea ('main').

Cyclas similis Say.

partumeta Say.

securis Prime.

Pisidium dubium Say.

Cyclas dubia Say.

abditum Hald.

variabile Prime.

compressum Prime.

Melania Virginica Say.

M. multilineata (var.) Say.

Amnicola decisa Hald.

granum Say.

Paludina grana Say.

Paludina decisa Say.

subcarinata Say.

Valvata sincera Say.

Ancylus Say.

Ancylus Say.

A. complanatus Say.

A. complanatus Say.

A. complanatus Say.

A. complanatus Say.

dentata Say.

Ancylus Say.

Ancylus Say.

Ancylus Say.

Ancylus Say.

Ancylus Say.

dentata Say.

Ancylus Say.

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Ancylus Say.

Ancylus Say.

Ancylus Say.

- Vertigo ovata** Say.
Pupa modesta Say.
Pupa contracta Say.
armifera Say.
fallax Say.
Cyclostoma marginata Say.
P. placida Say.
albilabris Ward.
Bulinus lubricus Brug.
Helix albolabris Say.
thyroidus Say.
tridentata Say.
H. fallax (var.?) Say.
hirsuta Say.
pulchella Müller.
H. minuta Say.
paludosa Montagu.
labyrinthica Say.
alternata Say.
- H. scabra* Lam.
radiata Gmelin.
Helix concava Say.
H. planorboides Ferussac.
cellaria Müller.
H. glaphyra Say (naturalized).
suppressa Say.
indentata Say.
electrina Gould.
arborea Say.
chersina Say.
lineata Say.
Succinea obliqua Say.
S. ovalis Say.
campestris Gould.
avara Say.
S. vermeta? Say, Adams.
Limax agrestis Müller.
L. tunicata Gould.

Stimpson.—Shells of New England; a revision of the Synonymy of the Testaceous Mollusks of New England, with Notes on their Structure and their Geographical and Bathymetrical Distribution, with figures of new species: by WILLIAM STIMPSON. Boston, 1851.

ACEPHALA.

BRACHIOPODA.

Terebratulidæ.

- | | | | |
|-------|--|-------|---|
| Page. | | Page. | |
| 7 | Terebratula septentrionalis
Couth.
<i>T. caput-serpentis</i> Gould. | 7 | Hypothyris psittacea King.
<i>Terebratula psittacea</i>
Lam. |

LAMELLIBRANCHIATA.

Anomiadæ.

- | | | |
|---|---|---|
| 7 | Anomia ephippium Linn.
var. <i>aculeata</i> . | var. <i>squamula</i> .
var. <i>electrica</i> . |
|---|---|---|

Ostreadæ.

- | | |
|---|---------------------|
| 8 | <i>orealis</i> Lam. |
|---|---------------------|

Pectenidæ.

Page.

- 8 **Pecten Magellanicus** Lam.
8 **Islandicus** Müller.

Page.

- 8 **Pecten irradians** Lam.
P. concentricus Say.
8 **fuscus** Linsley.

Arcadæ.

- 8 **Arca transversa** Say. | 8 **Arca pexata** Say.

Nuculidæ.

- | | |
|--|-------------------------------|
| 8 Nucula proxima Say. | 10 Leda Cascoensis St. |
| 8 tenuis Turton. | <i>Nucula Cascoensis</i> Mig. |
| <i>Arca tenuis</i> Mont. | et Adan |
| 9 delphinodonta Mighels et Adams. | 10 myalis St. |
| 9 Leda thraciæformis Stimp. | <i>Nucula myalis</i> Couth. |
| <i>Nucula thraciæformis</i> Stor. | <i>Yoldia angularis</i> Möll. |
| <i>navicularis</i> Couth. | 10 limatula St. |
| 10 obesa St. (pl. ii, fig. 1). | <i>Nucula limatula</i> Say. |
| 10 sapotilla St. | 10 tenuisulcata St. |
| <i>Nucula sapotilla</i> Gould. | <i>Nucula tenuisulcata</i> Co |
| | <i>minuta</i> Gould. |

Mytilidæ.

- | | |
|------------------------------------|---------------------------------|
| 11 Mytilus decussatus Mont. | 12 Mytilus levigatus St. |
| <i>Modiola glandula</i> Totten. | <i>M. discors</i> O. Fabr. |
| <i>Crenella decussata</i> DeKay. | <i>Modiola lævigata</i> Gray. |
| 11 pectinulus St. | <i>discrepans</i> Gld |
| <i>Modiola pectinula</i> Gould. | 12 discrepans Montagu. |
| <i>Mytilus faba</i> O. Fabr.? | <i>Modiola nigra</i> Gray. |
| 12 corrugatus St. | <i>neza</i> Gld. (y'n) |
| <i>Modiola discors</i> Gould. | <i>Crenella nigra</i> F. et H. |
| 12 discors Linn. | 12 plicatulus Desh. |
| <i>Modiola discrepans</i> Lam. | <i>Modiola plicatula</i> Lam. |
| <i>Crenella discors</i> F. et H. | 12 modiolus L. |
| | 12 edulis L. |

Unionidæ.

- | | |
|------------------------------------|-------------------------------------|
| 13 Unio complanatus Lea. | 13 Lampsilis radiata Ag. MS. |
| <i>Mya complanata</i> Soland. | <i>Mya radiata</i> Gmel. |
| 13 Burynea prælonga Ag. MS. | <i>Unio radiata</i> Lam. |
| <i>Unio prælongus</i> Barnes. | 14 cariosa Ag. MS. |
| 13 nasuta Ag. MS. | <i>Unio cariosus</i> Say. |
| <i>Mya nasuta</i> Wood. | 14 ochracea Ag. MS. |
| <i>Unio nasutus</i> Say. | <i>Unio ochraceus</i> Say. |

Page.		Page.	
14	<i>Lampisilis ventricosa</i> Ag. MS.	15	<i>Alasmodonta marginata</i> S.
	<i>Unio ventricosus</i> Barnes.	15	<i>Strophitus undulatus</i> Raf.
14	<i>siliquoidea</i> Ag. MS.		<i>Anodonta undulata</i> Say.
	<i>Unio siliquoideus</i> Barnes.	15	<i>sculptilis</i> Ag. MS.
14	<i>Metaptera alata</i> Ag. MS.		<i>Unio undulata</i> Say.
	<i>Unio alatus</i> Say.		<i>Alasm. undulata</i> Barnes.
14	<i>gracilis</i> Ag. MS.		<i>Alasm. sculptilis</i> Say.
	<i>Unio gracilis</i> Barnes.	15	<i>Anodonta Benedictensis</i>
14	<i>Complanaria rugosa</i> Ag. MS.	15	<i>implicata</i> Say. [Lea.
	<i>Alasmodonta rugosa</i> Barn.	15	<i>fluvialis</i> Lea.
14	<i>alasmodontina</i> Ag. MS.		<i>Mytilus fluvialis</i> Dill.
	<i>Unio alasmodontinus</i> Barn.	15	<i>marginata</i> Say.
	<i>compressus</i> Lea.	15	<i>Housatonica</i> Linsley.
	<i>Margaritana arcuata</i> Phil.	15	<i>subcylindracea</i> Lea.
	<i>Alasm. arcuata</i> Barnes.		

Cycladidæ.

<i>Cyclas similis</i> Say.	16	<i>Pisidium dubium</i> Gould.
<i>rhomboidea</i> Say.		<i>Cyclas dubia</i> Say.
<i>elegans</i> Adams.	16	<i>minus</i> St.
<i>partumela</i> Say.		<i>Cyclas minor</i> Ad. et Migh.
<i>pellucida</i> Prime.	16	<i>Adamsii</i> Prime MS.
<i>C. calyculata</i> Adams.		<i>Cyclas nitida</i> Ad. et Migh.
<i>truncata</i> Linsley.	16	<i>ventricosum</i> Prime.
<i>orbicularia</i> Barratt.		

Kelliadæ.

<i>Montacuta elevata</i> St.	17	<i>Kellia planulata</i> St.
<i>M. bidentata</i> Gould.		<i>K. rubra</i> Gould.
<i>Turtonia minuta</i> Alder.		
<i>Venus minuta</i> O. Fabr.		

Lucinidæ.

<i>Thyasira Gouldii</i> St.	17	<i>Lucina strigilla</i> St.
<i>Lucina Gouldii</i> Phil.		<i>L. divaricata</i> Auct.
<i>Lucina flexuosa</i> Gould.	17	<i>filosa</i> St.
		<i>L. radula</i> Gould.

Astartidæ.

<i>Cardita borealis</i> Conr.		<i>A. undata</i> Mighels.
<i>Astarte mactracea</i> Linsley.	18	<i>Astarte Portlandica</i> Mighels.
<i>A. lunulata</i> Conr. ?	18	<i>quadrans</i> Gould.
<i>18 sulcata</i> Flem.	18	<i>castanea</i> Say.
<i>Pectunculus sulcatus</i> Da C.		

Cyprinidæ.

Page.

Page.

- 18
- Cyprina Islandica*
- Lam.

Cardiadæ.

- | | |
|-------------------------------------|-----------------------------------|
| 19 <i>Cardium Islandicum</i> Linn. | <i>Cardium Grœnlandicum</i> Chem. |
| 19 <i>pinnulatum</i> Conr. | <i>edentulum</i> Sow. |
| 19 <i>Mortoni</i> Conr. | <i>Acardo edentulus</i> Swains. |
| 19 <i>Aphrodite Grœnlandica</i> St. | <i>Aphrodite columba</i> Lea. |

Veneridæ.

- | | |
|----------------------------------|---------------------------------|
| 19 <i>Venus mercenaria</i> Linn. | 19 <i>Cytherea convexa</i> Say. |
| 19 <i>fluctuosa</i> Gould. | 19 var. <i>minor</i> . |
| 19 <i>gemma</i> Totten. | <i>C. morrhua</i> Linsley? |

Macridæ.

- | | |
|---------------------------------|-------------------------------------|
| 20 <i>Mactra lateralis</i> Say. | 20 <i>Mactra solidissima</i> Chemn. |
| 20 <i>ponderosa</i> Phil. | 20 <i>similis</i> Say. |
| <i>M. ovalis</i> Gould. | |

Donacidæ.

- | | |
|-------------------------------------|-------------------------------------|
| 20 <i>Mesodesma arctatum</i> Gould. | 20 <i>Mesodesma deauratum</i> Hanl. |
| <i>Mactra arctata</i> Conr. | <i>Mactra deaurata</i> Turton. |
| | <i>Mesodesma Jauresii</i> Joan. |

Tellinidæ.

- | | |
|--------------------------------------|-------------------------------|
| 20 <i>Cumingia tellinoides</i> Conr. | <i>T. sordida</i> Couth. |
| 20 <i>Tellina fusca</i> Phil. | <i>calcareo</i> Lyell. |
| <i>Sanguinolaria fusca</i> Say. | 21 <i>Tellina tenera</i> Say. |
| <i>T. Grœnlandica</i> Beck? | 21 <i>tenta</i> Say. |
| 21 <i>proxima</i> Brown. | 21 <i>versicolor</i> Cozens. |
| <i>Sanguin. sordida</i> Gould. | 21 <i>elucens</i> Michels. |

Solemyadæ.

- | | |
|------------------------------|------------------------------------|
| 21 <i>Solemya velum</i> Say. | 21 <i>Solemya borealis</i> Totten. |
|------------------------------|------------------------------------|

Solenidæ.

- | | |
|--------------------------------------|------------------------------------|
| 22 <i>Solecurtus gibbus</i> F. et H. | 22 <i>Machæra squama</i> Gould MS. |
| <i>Solen gibbus</i> Spengler. | <i>Solecurtus squama</i> Blainv. |
| <i>Caribæus</i> Lam. | <i>M. nitida</i> Gould. |
| <i>Solecurtus Caribæus</i> Conr. | 22 <i>costata</i> Gould. |
| 22 <i>bidens</i> F. et H. | <i>Solen costatus</i> Say. |
| <i>Solen bidens</i> Chemn. | <i>Nahantensis</i> Desm. |
| <i>fragilis</i> Pult. | <i>Sagi</i> Griffith. |
| <i>centralis</i> Say. | 22 <i>Solen ensis</i> Linn. |
| <i>Solecurtus fragilis</i> Gould. | |

Anatinidæ.

Page.		Page.	
22	Anatina papyracea Say.	22	Thracia truncata Mighels.
22	Cochlodesma Leanum Couth.	23	Couthouyi St.
	<i>Anatina Leana</i> Couth.	23	Conradi Couth.

Pandoridæ.

23	Lyonsia hyalina Conr.	23	Pandora trilineata Say.
	<i>Osteodesma hyalina</i> Conr.		

Corbulidæ.

24	Corbula contracta Say.
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Myadæ.

24	Glycymeris siliqua Lam.		<i>P. arctica</i> Desh.
	<i>Mya siliqua</i> Chemn.	24	Mya truncata Linn.
24	Panopæa Norvegica Lovén.	24	<i>arenaria</i> Linn.
	<i>Mya Norvegica</i> Spengl.		

Gastrochaenidæ.

24	Petricola pholadiformis Lam.		<i>S. distorta</i> Say.
	<i>P. fornicata</i> Say.	25	Saxicava rugosa Lam.
24	dactylus Say.		<i>Mytilus rugosus</i> O. Fabr.
25	Saxicava arctica Desh.		<i>S. distorta</i> Say.
	<i>Mya arctica</i> L.		

Pholadidæ.

25	Pholas costata Linn.	25	Pholas crispata Linn.
25	<i>truncata</i> Say.	26	Teredo dilatata St.

GASTEROPODA.

PTEROPODA.**Hyaleadæ.**

27	Hyalea trispinosa Lesueur.
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Limacinadæ.

27	Spirialis Gouldii St. (pl. i, fig. 4).
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Clionidæ.

27	Clione borealis Gray		<i>Clio borealis</i> Linn.
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PROSOBRANCHIATA.

Dentaliadæ.

28	Dentallium striolatam St.	28	Dentallium occidentale St.
	<i>D. entalis</i> Migh.		<i>D. dentale</i> Gould.

Chitonidæ.

Page.		Page.	
28	Chiton apiculatus Say. <i>C. pectinatus</i> Gould MS.	29	Chiton marmoreus O. Fabr. <i>C. levigatus</i> Flem.
28	cinereus Linn. <i>C. marginatus</i> Penn.		<i>C. fulminatus</i> Couth.
28	albus Linn.	29	mendicarius Migh. et Ad.
29	ruber Linn.	29	Amicula vestita Gray. <i>Chiton vestitus</i> Br. et Sow. <i>Emersonii</i> Couth.

Patellidæ.

29	Pilidium candidum St. <i>Patella candida</i> Couth.		<i>Lottia testudinalis</i> Forbes. <i>Acmæa testudinalis</i> Hanley.
29	Tectura testudinalis Gray. <i>Patella testudinalis</i> Müll. <i>amæna</i> Say.	30	Tectura alveus St. <i>Patella alveus</i> Conr. <i>Lottia alveus</i> Gould.

Calyptæidæ.

30	Calyptæa striata Say.	30	Crepidula unguiformis Lam. <i>C. plana</i> Say.
30	Crepidula fornicata Lam. <i>Patella fornicata</i> Linn. <i>C. glauca</i> Say.	30	convexa Say.

Fissurellidæ.

30	Diadora Noachina Gray. <i>Patella Noachina</i> Linn. <i>Cemoria Noachina</i> Gould.		<i>Cemoria princeps</i> Migh. et Ad. <i>Puncturella Noachina</i> Lowe.
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Trochidæ.

31	Trochus occidentalis Migh. et Adams. <i>Margarita alabastrum</i> Beck MS. <i>T. alabastrum</i> F. et H.		<i>M. arctica</i> Gould. <i>Trochus helycinus</i> F. et H.
31	Margarita cinerea Gould. <i>Turbo cinereus</i> Couth.	32	Margarita coarctata St. <i>Delphinula coarctata</i> Mighels.
31	obscura Gould. <i>Turbo obscurus</i> Couth.	32	? multilineata De Kay.
31	undulata Soub.	32	? ornata De Kay.
31	argentata Gould.	32	Adeorbis costulata St. <i>Margarita? costulata</i> Möll. — <i>? costulata</i> F. et H. <i>Marg. minutissima</i> Migh.?
32	helicina Möll. <i>Turbo helycinus</i> O. Fabr.	32	Phasianella sulcosa Migh.

Ianthinidæ.

32	Ianthina fragilis Brug.
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Paludinidæ.

Page.		Page.	
32	<i>Melania depygis</i> Say.	33	<i>Valvata tricarinata</i> Say.
33	<i>Paludina decisa</i> Say.	33	<i>sincera</i> Say.
33	<i>Amnicola porata</i> Gould.	33	<i>pupoidea</i> Gould.
33	<i>pallida</i> Hald.		

Littorinidæ.

33	<i>Littorina rudis</i> Gould. <i>Nerita littorea</i> O. Fabr. <i>Turbo rudis</i> Don. <i>tenebrosus</i> Mont. <i>obligatus</i> Say. <i>vestitus</i> Say. <i>L. Grönlandica</i> Müll. <i>tenebrosa</i> Forbes.	33	<i>Rissoa modesta</i> St. <i>Cingula modesta</i> H. C. Lea. <i>lævis</i> De Kay?
33	<i>littoralis</i> F. et H. <i>Nerita littoralis</i> L. <i>Turbo palliatus</i> Say. <i>L. palliata</i> Gould. <i>neritoides</i> De Kay.	34	<i>latior</i> St. <i>Cing. latior</i> Migh. et. Ad.
33	<i>irrorata</i> Gray. <i>Turbo irroratus</i> Say. <i>Phasianella sulcata</i> Lam.	34	<i>eburnea</i> St. (pl. i, fig. 1).
33	<i>Lacuna vincta</i> Turton. <i>Turbo divaricatus</i> O. Fabr. <i>vinctus</i> Mont.	34	<i>aculeus</i> St. <i>Cingula aculeus</i> Gould. <i>Paledinella aculeus</i> Middendorff?
33	<i>neritoidea</i> Gould.	34	<i>multilineata</i> St. (pl. i, f. 2).
33	<i>Rissoa minuta</i> St. <i>Turbo minutus</i> Tott. <i>Cingula minuta</i> Gould.	34	<i>Mighelsii</i> St. <i>Cingula arenaria</i> M. et Ad.
		34	<i>exarata</i> St. (pl. i, fig. 3).
		34	<i>pelagica</i> St. <i>Cingula semicostata</i> Migh. et Ad.
		35	<i>Skenea planorbis</i> F. et H. <i>Turbo planorbis</i> O. Fabr. <i>S. serpuloides</i> Gould.

Turritellidæ.

35	<i>Turritella costulata</i> M. et Ad.	35	<i>Turritella acicula</i> St. (pl. i, fig. 5).
35	<i>areolata</i> St.		
35	<i>erosa</i> Couth.	36	<i>Cœcum pulchellum</i> St. (pl. ii, fig. 3).

Cerithiadæ.

37	<i>Aporrhais occidentalis</i> Beck.	37	<i>Cerithium Sayi</i> Menke.
	<i>Rostellaria occidentalis</i>	37	<i>Greenii</i> Adams.
	Gould.	37	<i>nigrocinctum</i> Adams.

Vermetidæ.

37	<i>Vermetus radícula</i> St.		<i>V. bicarinatus</i> Desh.?
	<i>V. lumbricalis</i> Gould.		<i>Knorrii</i> Desh.?

Scalariadæ.

Page.		Page.	
39	<i>Scalaria Novangliæ</i> Couth.	39	<i>Scalaria multistriata</i> Say.
39	<i>Grönlandica</i> Gould.	39	<i>Eulima oleacea</i> Kurtz et St. (pl. i, fig. 6).
39	<i>lineata</i> Say.		

Pyramidellidæ.

40	<i>Menestho albula</i> Möll. <i>Turbo albulus</i> O. Fabr. <i>Pyramis striatula</i> Couth.	42	<i>Chemnitzia bisuturalis</i> St. <i>Turritella bisuturalis</i> Say. <i>Jaminia exigua</i> Couth. <i>Odostomia exigua</i> Gould.
40	<i>Chemnitzia nivea</i> St.	42	<i>trifida</i> St. <i>Actæon trifidus</i> Tott.
41	<i>interrupta</i> St. <i>Turritella interrupta</i> Tott.	42	<i>Odostomia trifida</i> Gould.
41	<i>producta</i> St. <i>Jaminia producta</i> Adams. <i>Odostomia producta</i> Gould.	42	<i>impressa</i> Kurtz MS. <i>Turritella impressa</i> Say. <i>Odostomia insculpta</i> De K.
41	<i>fusca</i> St. <i>Pyramis fusca</i> Adams. <i>Odostomia fusca</i> Gould.	42	<i>seminuda</i> St. <i>Jaminia seminuda</i> Adams. <i>Odostomia seminuda</i> Gld.
41	<i>dealbata</i> St.		
41	<i>modesta</i> St.		

Naticidæ.

42	<i>Natica flava</i> Gould.	42	<i>Natica Gouldii</i> Phil.
42	<i>helicoides</i> Johnston. <i>N. canaliculata</i> Gould. <i>cornea</i> Phil. <i>Gouldii</i> Adams.	43	<i>Grönlandica</i> Beck. <i>N. pusilla</i> Gould.
42	<i>heros</i> Say.	43	<i>immaculata</i> Totten.
42	<i>triseriata</i> Say.	43	<i>duplicata</i> Say.
		43	<i>pusilla</i> Say.
		43	<i>clausa</i> Brod. et Sow.

Velutinidæ.

44	<i>Velutina haliotoides</i> Möll. <i>Helix haliotoides</i> O. Fabr. <i>V. lœvigata</i> Flem.	44	<i>Lamellaria perspicua</i> Lœvén. <i>Helix perspicua</i> Linn. <i>Sigaretus haliotoides</i> Flem.
44	<i>zonata</i> Gould.		

Cancellariadæ.

44	<i>Admete viridula</i> St. <i>Tridacna viridulum</i> O. Fabr. <i>Murex costellifer</i> Sow. <i>Cancellaria lœvissimoides</i> Con. <i>Costellifer</i> Jay. <i>Admete viridis</i> Möll. <i>Cancellaria viridula</i> Lœvén.	45	<i>Trichotropis borealis</i> <i>Brod. et Sow.</i>
		45	<i>Cerithiopsis terebellum</i> St. <i>Cerithium terebrale</i> Ad. <i>terebellum</i> Ad.
		45	<i>Emersonii</i> St. <i>Cerithium Emersonii</i> Ad.

Muricidæ.

Page.		Page.	
45	Ranella caudata Say.	47	Tritonium clathratum Müll.
45	Purpura lapillus Lam.		<i>Murex clathratus</i> Linn.
	<i>Buccinum lapillus</i> Linn.		<i>Banffius</i> Don.
45	Nassa trivittata Say.		<i>Fusus Banffius</i> Flem.
	<i>Buccinum trivittatum</i> Ad.		<i>Trophon clathratum</i>
45	vibex Say.		F. et H.
	<i>Buccinum vibex</i> Ad.	47	scalariforme St.
45	obsoleta Say.		<i>Fusus scalariformis</i> Gould.
	<i>Buccinum obsoletum</i> Ad.		<i>T. clathratum</i> var. Lovèn.
45	Buccinum undatum Linn.	47	Fasciolarialigata Migh. et Ad.
46	plicosum Menke.	47	Pyrula canaliculata Brug.
	<i>Fusus cinereus</i> Say.		<i>Murex canaliculata</i> Linn.
46	Tritonium ventricosum St.	47	carica Brug.
	<i>Fusus ventricosus</i> Gray.		<i>Murex carica</i> Gmel.
46	Islandicum Lovèn.		<i>P. aurum</i> Reeve.
	<i>Murex Islandicus</i> Chemn.	47	Columbella rosacea St.
	<i>Fusus Islandicus</i> Gould.		<i>Buccinum rosaceum</i> Gld.
46	pygmæum St.	47	dissimilis St.
	<i>Fusus Islandicus</i> var. <i>pygmæus</i> Gould.		<i>Buccinum zonale</i> Linsley?
	<i>Fusus pygmæus</i> Migh.	48	lunata Sow.
46	decemcostatum		<i>Nassa lunata</i> Say.
	Middendorff.		<i>Buccinum lunata</i> Ad.
	<i>Fusus decemcostatus</i> Say.	48	Fusus Trumbulli Linsley?
		48	Buccinum Veatleyi De Kay?
		48	Columbella Gouldiana Ag.
		48	avara Say. [MS.

Conidæ.

48	Mangelia turricula F. et H.	49	Mangelia cancellata St.
	<i>Murex turricula</i> Mont.		<i>Fusus cancellatus</i> M. et A.
	<i>Fusus turricula</i> Brown.	49	decussata St.
48	harpularia St.		<i>Pleurotoma decussata</i> Con.
	<i>Fusus harpularius</i> Couth.	49	violacea St.
49	pyramidalis St.		<i>Pleurotoma violacea</i>
	<i>Buccinum pyramidale</i>		Migh. et Ad.
	Ström.	49	bicarinata St.
	<i>Tritonium pyramidale</i>		<i>Pleurotoma bicarinata</i> Con.
	Lovèn.	49	Pleurotoma cerinum Kurtz et
	<i>Fusus rufus</i> Gould.		St. (pl. ii, fig. 2).
		49	plicatum Adams.

TECTIBRANCHIATA.

Bullidæ.

Page.		Page.	
50	<i>Bulla hiemalis</i> Couth.	50	<i>Bulla solitaria</i> Say.
50	<i>oryza</i> Totten.		<i>B. insculpta</i> Tott.
50	<i>triticea</i> Couth.	50	<i>puncto-striata</i> M. et Ad.
	<i>B. corticata</i> Möll.	51	<i>Philine lineolata</i> St.
50	<i>canaliculata</i> Say.		<i>Bulla lineolata</i> Couth.
	<i>B. obstricta</i> Gould.	51	<i>sinuata</i> St. (pl. i, fig. 7).
50	<i>pertenuis</i> Mighels.	51	<i>formosa</i> St.
50	<i>incincta</i> Mighels.		<i>P. quadrata</i> F. et H.?
50	<i>debilis</i> Gould.		<i>scutulum</i> Lovén.?
50	<i>Gouldii</i> Couth.		

Tornatellidæ.

51	<i>Actæon puncto-striata</i> St.		<i>Tornatella puncto-striata</i> Ad.
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Melampidæ.

51	<i>Melampus corneus</i> St.		<i>Voluta denticulata</i> Mont.
	<i>M. bidentatus</i> Say.		<i>Auricula denticulata</i> Gld.
	<i>Auricula cornea</i> Desh.	52	<i>Carychium exiguum</i> Gould.
	<i>bidentata</i> Gould.		<i>Pupa exigua</i> Say.
52	<i>denticulatus</i> Auct.		<i>Bulinus exiguus</i> Binney.

PNEUMOBANCHIATA.

Limnæadæ.

52	<i>Ancylus parallelus</i> Hold.	52	<i>Limnæa elodes</i> Say.
	<i>A. rivularis</i> Gould.	52	<i>gracilis</i> Jay.
52	<i>fuscus</i> Adams.	53	<i>Physa heterostrophæ</i> Say.
52	<i>tardus</i> Say.	53	<i>fragilis</i> Migh. et Ad.
52	<i>Limnæa appressa</i> Say.	53	<i>ancillaria</i> Say.
52	<i>decollata</i> Migh. et Ad.	53	<i>gyrina</i> Say.
52	<i>catascopium</i> Say.	53	<i>elongata</i> Say.
	<i>L. pinguis</i> Say.	53	<i>Planorbis trivolvis</i> Say.
	<i>emarginata</i> Say.	53	<i>lentus</i> Say.
52	<i>ampla</i> Migh.	53	<i>bicarinatus</i> Say.
52	<i>megasoma</i> Say.	53	<i>campanulatus</i> Say.
52	<i>columella</i> Say.	53	<i>armigerus</i> Say.
	<i>L. macrostoma</i> Say.	53	<i>hirsutus</i> Gould.
52	<i>caperata</i> Say.	53	<i>deflectus</i> Say.
	<i>L. umbilicata</i> Adams.	53	<i>exacutus</i> Say.
52	<i>humilis</i> Say.	53	<i>parvus</i> Say.
	<i>L. modicellus</i> Say.		<i>P. elevatus</i> Adams.
52	<i>pallida</i> Adams.	53	<i>dilatatus</i> Gould.
52	<i>desidiosa</i> Say.		<i>P. lens</i> Lea.

Vertiginidæ.

Page.		Page.	
53	Vertigo milium Gould.	53	Vertigo ovata Say.
	<i>Pupa milium</i> Gould.		<i>Pupa ovata</i> Sager.
53	Gouldii Gould.		<i>modesta</i> Say.
	<i>Pupa Gouldii</i> Binney.	53	simplex St.
			<i>Pupa simplex</i> Gould.

Pupadæ.

53	Pupa pentodon Binney.	54	Pupa contracta Say.
	<i>Vertigo pentodon</i> Say.	54	badia Adams.
	<i>P. curvidens</i> Gould.	54	armifera Say.

Helicidæ.

54	Bulimus harpa Pfeiff.	55	Helix striatella Anthony.
	<i>Helix harpa</i> Say.	55	exigua St.
	<i>Pupa costulata</i> Migh.		<i>H. annulata</i> Case?
54	fallax Gould.	55	minuscule Binney.
	<i>Pupa fallax</i> Say.	55	fuliginosa Griffith.
54	lubricoides St.	55	cellaria Müll.
	<i>B. lubricus</i> Gould.	55	inornata Say.
54	Helix albolabris Say.	55	arborea Say.
54	nemoralis Linn.	55	electrina Gould.
	<i>H. hortensis</i> Müll.	55	indentata Say.
	<i>subglobosa</i> Binney.	55	chersina Say.
54	thyroidus Say.	55	suppressa Say.
54	dentifera Binney.	55	multidentata Binney.
54	tridentata Say.	55	lineata Say.
54	palliat Say.	55	Succinea obliqua Say.
54	monodon Rackett.		<i>S. campestris</i> Gould.
54	hirsuta Say.		<i>ovalis</i> Say.
54	concava Say.	55	avara Say.
54	minuta Say.	55	ovalis Gould.
	<i>H. pulchella</i> Gould.	55	Vitrina pellucida Drap.
54	Sayii Binney.		<i>Helix pellucida</i> Müll.
54	labyrinthica Say.		<i>Vitrina limpida</i> Gould.
55	alternata Say.		

Limacidæ.

56	Limax campestris Binney.	56	Tebennophorus dorsalis
56	agrestis Müll.		Binney.
	<i>L. tunicata</i> Gould.		<i>Phylomycus dorsalis</i> Binn.
56	variegatus Drap.	56	Carolinensis Binney.
56	Arion hortensis Fér.		<i>Limax Carolinensis</i> Bosc.
			<i>togata</i> Gould.

CEPHALOPODA.

DECAPODA.

Spirulidæ.

Page.

Page.

57 *Spirula Peronii* Lam.

Loliginidæ.

57 *Loligo illecebrosa* Lesueur. | 57 *Loligo pavo* Lesueur.

ERRATA.

58 *Pecten fuscus* Linsley (preoc.) = *Pecten brunneus* St.58 *Leda obesa* St.

Prime.—Descriptions of two new Species of Fresh-water Shells:
by TEMPLE PRIME. (From Annals of N. Y. Lyceum of Natural
History, vol. v. February, 1852.)

Page.	Plate.	Name.	Locality.
218	vi	<i>Cyclas securis</i> Prime.	Massachusetts.
219	vi	<i>Pisidium compressum</i> Prime.	Massachusetts.

Jay.—A Catalogue of the Shells, arranged according to the Lamarckian System, &c., contained in the Collection of JOHN C. JAY, M. D. Fourth edition, with Supplement. New York, 1852. [No descriptions.]

CLASS TROPIPODA.

ORDER BIMUSCULOSA.

Family Tubicola.

Page.	Name.	Locality.
9	<i>Teredo navalis</i> Linn.	Atlantic ocean.

Family Pholadaria.

9	<i>Pholas Californica</i> Conrad.	Upper California.
	<i>P. Janellii</i> Desh.	
10	<i>costata</i> Linn.	South Carolina.
10	var.	N. Y., Gulf of Mexico.
10	<i>crispata</i> Linn. (var.)	Sandy Hook.
10	<i>penita</i> Conrad.	California.
	<i>P. concamerata</i> Desh.	
10	<i>truncata</i> Say.	New York.

Family **Solenacea.**

Page.	Name.	Locality.
11	Solen ensis Linn.	N. Y., Rhode Island.
11	siliqua Linn.	New York.
11	vagina Linn.	New York.
11	viridis Say.	Rhode Island.
12	Solecurtus Californianus Conrad. (<i>Cultellus</i> Conrad.)	Upper California.
12	Caribæus Lam. <i>S. Guineensis</i> ? Chem.	N. Y., Rhode Island.
12	coarctatus Gmelin (var.) <i>S. centralis</i> Say. <i>antiquatus</i> Lam.	Rhode Island.
12	subteres Conrad. <i>Cultellus subteres</i> Conrad.	Upper California.
12	Machæra costata Say.	New York.
12	lucida Conrad.	Upper California.
12	maxima Wood. <i>Solecurtus Nuttallii</i> Conrad.	Oregon.
12	media Gray. <i>M. nitida</i> Gould.	B'ks of Newfoundland.
12	Panopæa Norvegica Speng. <i>P. arctica</i> Gould.	B'ks of Newfoundland.
13	Glycimeris siliqua Lam. <i>Mya siliqua</i> . <i>picea</i> .	Newfoundland.
13	Solemya borealis Totten.	Rhode Island.
13	velum Say.	New York.

Family **Myaria.**

13	Mya arenaria Linn. (var.) <i>Mya acuta</i> Say.	N. England, N. Y., N. J.
13	cancellata Conrad.	Upper California.
14	truncata Lam. <i>M. ovalis</i> Turt. (young.)	Newfoundland.
14	Cerbula contracta Say.	Rhode Island.
15	Pandora trilineata Say. <i>P. nasuta</i> Sowb.	New York, N. J.

Family **Osteodesmata.**

16	Osteodesma hyalina Conrad.	New York.
16	Cochlodesma Leana Conrad. <i>Anatina Leana</i> Conrad.	New York.
16	Periploma angulifera Phil.	Galveston.
16	argentaria Conrad.	California.

Page.	Name.	Locality.
17	Anatina papyracea Say.	United States.
17	Thracia Conradi Couth.	Coasts of N. England.
	<i>T. declivis</i> Conrad.	
17	myopsis Beck.	Greenland.
17	truncata Mighels.	Casco Bay.

Family **Maत्रaceae.**

18	Lutraria canaliculata Say.	South Carolina.
18	lineata Say.	Georgia.
	<i>L. papyracea</i> ? Lam.	
19	Mactra lateralis Say.	New York.
	<i>Mulinia lateralis</i> Gray.	
19	ovalis Gould.	Massachusetts.
	<i>M. grandis</i> Desh.	
19	var. <i>M. similis</i> Gray.	Rhode Island.
19	similis Say.	South Carolina.
19	solidissima Chemn.	New York.
	<i>M. gigantea</i> Lam.	
19	Gnathodon cuneatus Gray.	Alabama.
	<i>Rangia Cyrenoides</i> Conrad.	
20	Mesodesma arctata Conrad.	Rhode Island.
21	Kellia rubra Turton.	Stonington, Ct.
	<i>Cardium rubrum</i> Mont.	
	<i>Amphidesma nucleolum</i> Lam.	
21	Amphidesma æquale Say.	South Carolina.
22	decisum Conrad.	Upper California.
	<i>A. roseum</i> ? Sowerby.	
22	Cumingia Californica Conrad.	Santa Barbara.
22	tellinoides Conrad.	Maine.
	<i>Mactra tellinoides</i> Conrad.	

Family **Lithophaga.**

22	Saxicava Californica Conrad.	California.
	<i>S. pholadis</i> Lam.	
22	pholadis Lam. (var.)	New York.
	<i>Bissomya pholadis</i> De Blain.	
	<i>S. distorta</i> Say.	
23	Sphænia Californica Conrad.	California.
23	Petricola cylindracea Desh.	California.
23	dactylus Sowerby.	New Jersey.
23	pholadiformis Lam.	New York.
	<i>P. fornicata</i> Say.	
23	Venerupis gigantea Desh.	California.
	<i>Saxidomus Nuttallii</i> Conrad.	
23	Petitii Desh.	California.

Family Nymphacea.

Page.	Name.	Locality.
23	<i>Sanguinolaria Nuttallii</i> Conrad.	California.
24	<i>Psammobia Pacifica</i> Conrad.	Columbia river.
25	<i>Tellina alta</i> Conrad.	California.
25	<i>alternata</i> Say.	Florida.
25	<i>Burneti</i> Brod.	Mazatlan.
	<i>Lucina cristata</i> Recluz.	
25	<i>calcareo</i> Chemn.	Greenland.
	<i>T. sordida</i> Phil.	
25	<i>Cayennensis</i> Lam.	Mexico.
	<i>T. constricta</i> Phil.	
	<i>Psammobia Cayennensis</i> Lam.	
	<i>T. intastriata</i> Say.	
25	<i>decora</i> Say.	East coast of Florida.
26	<i>dispar</i> Conrad.	California, Wahoo.
26	<i>Fabricii</i> Hanley.	Greenland.
	<i>T. fragilis</i> Fab.	
26	<i>fusca</i> Say.	New York.
	<i>Psammobia fusca</i> Say.	
	<i>Sanguinolaria fusca</i> Conrad.	
26	<i>inconspicua</i> Br. & Sowb.	Arctic Ocean.
26	<i>iris</i> Say.	New York.
27	<i>lateralis</i> Say.	Florida.
27	<i>nasuta</i> Conrad.	Columbia river.
28	<i>polita</i> Say.	South Carolina.
28	<i>proxima</i> Brown.	Massachusetts.
	<i>T. sordida</i> Couth.	
28	<i>rugosa</i> Born.	New California.
28	<i>secta</i> Conrad.	Upper California.
	<i>T. ligamentina</i> Desh.	
29	<i>tenera</i> Say.	New Bedford.
30	<i>Lucina Californica</i> Conrad.	San Diego.
30	<i>contracta</i> Say.	Rhode Island.
30	<i>corrugata</i> Desh.	California.
30	<i>Floridana</i> Conrad.	Tampa bay.
30	<i>Nuttallii</i> Conrad.	Upper California.
31	<i>Donax californica</i> Conrad.	Sta. Barbara.
31	<i>fossor</i> Say.	New York.
31	<i>variabilis</i> Say.	Georgia.

Family Conchacea.

32	<i>Cyclas dubia</i> Say.	Ohio.
32	<i>elegans</i> Adams.	Vermont.
32	<i>minor</i> Adams.	Vermont.

Page.	Name.	Locality.
32	Cyclas partumeia Say.	Ohio.
32	rhomboidea Say.	Vermont.
32	similis Say.	Ohio.
	<i>C. sulcata</i> Lam.	
32	staminea Conrad.	Missouri.
33	Cyrena Caroliniensis Lam.	South Carolina.
	<i>Cyclas Caroliniensis</i> Bosc.	
33	sordida Hanley.	North America.
34	Cyprina Islandica Lam.	B'ks of Newfoundland.
	<i>Venus bucardium</i> Born.	Rhode Island.
	<i>mercenaria</i> Pennant.	
34	Astarte Banksii Gray.	Greenland.
34	bilunulata Conrad.	Tampa bay.
34	castanea Say.	N. Y., Provincetown.
	<i>A. picea</i> var.	
	<i>procera</i> Totten.	
34	Danmoniensis Sowerby.	Maine.
35	difficilis .	Greenland.
35	lævis .	Greenland.
35	lactea Brod.	Grand Bank.
35	quadrans Gould.	Maine.
35	semisulcata Gray.	Greenland.
35	striata Leach.	Greenland.
	<i>Nicania striata</i> Leach.	
35	undata Gould.	Maine.
	<i>A. latisulca</i> Hanley.	
35	Cytherea convexa Say.	New York.
36	Crassatelloides Conrad.	California.
	(<i>Trigonella</i> Conrad.)	
36	var.	San Diego, Sta. Barbara.
36	Dione Linn. (var.)	California.
36	gigantea Lam.	Florida.
37	planulata Sowerby.	Mazatlan.
37	rosea Br.	San Blas.
37	squalida Sowerby.	California.
	<i>C. elegans</i> Koch.	
	<i>biradiata</i> Sowerby.	
38	Artemis gigantea Sowerby.	California.
38	Venus Californiensis Brod.	California.
38	cancellata Lam. (var.)	South Carolina.
	<i>V. elevata</i> Say.	
	<i>Cingenda</i> Dillwyn.	
39	fluctuosa Gould.	B'ks of Newfoundland.
40	gemma Totten.	New York.
40	gnidia Br.	San Blas.

Page.	Name.	Locality.
40	Venus grata Say, <i>V. discors</i> Sowerby.	West coast of Mexico.
40	mercenaria Linn.	N. Y., N. J., Mass.
40	Mortoni Conrad.	Florida.
41	notata Say.	New York.
41	Nuttalli Conrad.	California.
42	tricolor Brod.	California.
42	undatella Sowerby.	California.

Family **Cardiacea.**

44	Cardium elatum Sowerby.	California.
44	var.	Gulf of California.
44	Grœnlandicum Chemn. <i>C. edentulum</i> Sowerby.	Greenland.
	var. <i>Maetra radiata</i> Donovan.	North Atlantic.
	var. <i>Aphrodite columba</i> Lea.	B'ks of Newfoundland.
44	Icelandicum Chemn. (var.) <i>C. pubescens</i> Couth. <i>arcticum</i> Sowerby.	Massachusetts bay.
45	magnum Born. <i>C. maculatum</i> Gemlin. var. <i>C. ventricosum</i> Brug.	Gulf of Mexico.
45	Mortoni Conrad.	South Carolina.
45	Nuttalli Conrad.	New York.
45	pinnulatum Conrad.	Upper California.
46	quadragenarium Conrad.	Rhode Island.
46	substriatum Conrad.	Upper California.
47	Cardita borealis Conrad. <i>Venericardia borealis</i> Conrad.	California.
47	Floridana Conrad.	Rhode Island.
		Tampa Bay.

Family **Arcacea.**

49	Arca Americana Gray.	Mobile.
49	formosa Sowerby.	Mexico.
50	incongrua Say.	South Carolina.
50	pexata Say.	New York.
50	ponderosa Say. <i>A. hemicardium</i> Koch.	Coast of United States.
51	transversa Say.	New York.
51	trapezia Desh. <i>A. tobata</i> Reeve.	Mexico.
52	Nucula antiqua Mighels (fossil).	Maine.
52	buccata Stp. <i>N. rostrata</i> ? Lam.	Greenland.

Page.	Name.	Locality.
53	Nucula Cascoensis <i>Mighels.</i>	Casco bay.
53	delphinodonta <i>Mighels.</i>	Casco bay.
53	lenticula <i>Möll.</i>	Greenland.
53	lomatula <i>Say.</i>	Rhode Island.
53	macilenta <i>Stp.</i>	Greenland.
53	minuta <i>Gmelin.</i>	Massachusetts.
	<i>N. tenuisulcata</i> <i>Couth.</i>	
53	var.	Greenland.
53	myalis <i>Couth.</i>	Massachusetts bay.
53	navicularis <i>Couth.</i>	Maine.
53	Portlandica <i>Hitch. (fossil).</i>	Maine.
53	proxima <i>Say.</i>	Massachusetts bay.
53	sapotilla <i>Gould.</i>	Cape Cod.
53	tenuis <i>Turton, Gray.</i>	Maine, Greenland.
	<i>N. lucida</i> <i>Blanding.</i>	
53	Thraciæformis <i>Storer.</i>	Cape Cod.

Family **Naiades.**

54	Unio acutissimus <i>Lea.</i>	Alabama river.
54	alatus <i>Say.</i>	Fox river.
	<i>Symphynota alata</i> <i>Lea.</i>	Detroit riv., N. West'n
	var. <i>U. megaptera</i> <i>Raf.</i>	Territory, Ohio.
54	altilis <i>Conrad.</i>	Alabama river.
54	angustatus <i>Lea.</i>	Congaree river.
54	apiculatus <i>Say.</i>	New Orleans.
	var. <i>U. asper</i> <i>Lea.</i>	Alabama river.
55	arctior <i>Lea.</i>	Ohio river.
	<i>U. dilatatus?</i> <i>Raf.</i>	
55	atrocostatus <i>Lea.</i>	Alabama.
55	biangulatus <i>Lea.</i>	Tennessee.
55	Blandingianus <i>Lea.</i>	Florida.
55	Boydianus <i>Lea.</i>	New York.
55	bullatus <i>Raf.</i>	Ohio.
	<i>U. pustulosus</i> <i>Lea.</i>	
	var. <i>U. Dorfeuillanus</i> <i>Lea.</i>	
	<i>Schoolcraftensis</i> <i>Lea.</i>	
	<i>prasinus</i> <i>Conrad.</i>	
55	cælatatus <i>Conrad.</i>	Tennessee.
55	callosus <i>Lea.</i>	Ohio canal.
55	camptodon <i>Say.</i>	New Orleans.
55	capax <i>Green.</i>	Louisiana.
	<i>U. globosus</i> <i>Lea.</i>	
55	Capsæformis <i>Lea.</i>	Cumberland river.

Page.	Name.	Locality.
56	Unio carbonarius Lea.	Medellin river.
	<i>U. pliciferus</i> Lea.	
	var. <i>U. plexus</i> Conrad.	Mexico.
	<i>semigranosa</i> Busch.	
56	cardium Raf.	Ohio river.
	<i>U. occidentalis</i> Lea.	
	var. <i>U. ventricosus</i> Barnes, Say.	
	<i>subovatus</i> Lea.	
56	cariosus Say.	Passaic river.
	<i>U. ovata</i> Valenc.	
	var. <i>U. luteolus</i> Lam.	Hudson river & Conn.
56	castaneus Lea.	Alabama river.
56	cerinus Conrad.	Louisiana.
56	cleatricus Say.	Ohio river.
	<i>U. varicosus</i> Lea.	
56	Claibornensis Lea.	Alabama.
56	clavus Lam.	Wabash river.
	<i>U. Modioliformis</i> Say.	
	var. <i>U. scalenius</i> Raf.	Ohio river.
	<i>cuneatus</i> Raf.	
	<i>patulus</i> Lea.	
56	coccineus Lea.	Mahoning river.
	<i>U. rubra?</i> Raf.	
	var. <i>U. cutillus</i> Conrad.	Ohio river.
	<i>Gouldianus?</i> Ward.	
56	collinus Conrad.	N. river, Va.
56	complanatus Soland.	Maryland.
	<i>Mya complanata</i> Soland.	
	var. <i>U. violaceus</i> Spengler.	New Jersey.
	<i>purpureus</i> Say.	Yadkin river.
	<i>rarisulcata</i> Lam.	Lake Champlain.
	<i>coarctata</i> Lam.	Virginia.
	<i>purpurascens</i> Lam.	New York.
	<i>rhombula</i> Lam.	Hudson river.
	<i>carinifera</i> Lam.	Connecticut.
	<i>Georgina</i> Lam.	Lake George.
	<i>glabrata</i> Lam.	Massachusetts.
	<i>sulcidens</i> Lam.	Connecticut.
	<i>fluvialilis</i> Green.	Pennsylvania.
	<i>Mya rigida</i> Wood.	Rhode Island.
57	compressus Lea.	New York.
	<i>Symphynota compressa</i> Lea.	
57	confertus Lea.	Santee canal, S. C.
57	Congareus Lea.	Congaree river.

Page.	Name.	Locality.
57	Unio Conradius Lea.	Tennessee.
	var.	Flint river.
57	constrictus Conrad.	Virginia.
57	Cooperianus Lea.	Ohio river.
	<i>U. striatus</i> Raf., Anthony.	
	var. <i>Obovaria pachostea</i> Raf., Fer.	Kentucky.
57	cor Conrad.	Elk river.
	<i>U. mytiloides</i> ? Raf. (young).	
57	cordatus Raf.	Cumberland river.
	<i>U. undatus</i> Barnes.	
	var. <i>U. trigonus</i> Lea.	
	<i>undulatus</i> Desh.	
57	costatus Raf.	Ohio river, Tennessee.
	<i>U. undulatus</i> Barnes.	
57	crassidens Lam.	Ohio river.
	<i>U. cuneatus</i> Barnes.	
	var. <i>U. niger</i> Raf.	Ohio river.
	<i>gibber</i> Lea.	Tennessee.
57	crassus Say.	Ohio river.
	<i>U. ellipticus</i> Barnes.	
	var. <i>U. ellipsarius</i> Raf.	
	<i>ligamentina</i> Lam.	
	<i>orbiculatus</i> Hild.	Scioto river.
	<i>Mya gravis</i> Wood.	Cincinnati.
	<i>U. cyclops</i> Raf.	Mississippi.
	<i>abruptus</i> Say.	
58	cuneolus Lea.	Holston river.
58	cylindricus Say.	Wabash river.
	var. <i>U. naviformis</i> Lam.	Ohio river.
	<i>solenoides</i> ? Raf.	Muskingum river.
58	cyphius Raf.	Ohio river.
	<i>U. Aesopus</i> Green.	
	var. <i>Obliquaria cyphia</i> Raf.	Falls of Ohio river.
58	decisus Lea.	Alabama river.
58	declivis Say.	Bayou Teche.
	var. <i>U. geometricus</i> Lea.	Louisiana.
58	delumbis Conrad.	Cooper river, S. C.
	<i>U. modioliformis</i> Lea.	
58	dilatatus Raf.	Upper Missouri.
	<i>U. gibbosus</i> Barnes.	
	var. <i>U. mucronatus</i> Barnes.	Ohio river.
	<i>nasuta</i> Lam.	Tennessee.
58	dolabraeformis Lea.	Altamaha river.
58	dromas Lea.	Harpeth river.
58	var.	Elk river.

Page.	Name.	Locality.
58	Unio Edgarianus Lea.	Holston river.
59	exoultus Conrad.	New Orleans.
59	fasciatus Raf. <i>U. carinatus</i> Barnes.	Scioto river, Kentucky.
59	fasciolaris Raf. <i>U. phaseolus</i> Hild. var. <i>U. planulatus</i> Lea. <i>camelus</i> Lea. <i>cuneatus</i> Hild.	Ohio river. Wabash river.
59	fasciolus Raf. <i>U. multiradiatus</i> Lea. var. <i>U. ligamentina</i> Desh.	Ohio river.
59	Fisherianus Lea.	Chester river.
59	flavus Raf. <i>U. rubiginosus</i> Lea.	Kentucky, Ohio river.
59	flexuosus Raf. <i>U. foliatus</i> Hild.	Ohio river.
59	folliculatus Lea.	Savannah river.
59	fragilis Raf. <i>U. gracilis</i> Barnes. var. <i>U. fragilis</i> Swains. <i>Symphynota gracilis</i> Lea.	Detroit river. Fox river. Ohio river.
59	fragosus Conrad.	Scioto river.
59	fulvus Lea. <i>U. icterinus</i> Conrad.	South Carolina.
59	gibbosus Raf. var. <i>U. torulosus</i> Raf. <i>perplexus</i> Lea.	Ohio river. Scioto river. Wabash river.
60	glans Lea.	Ohio river.
60,	graniferus Lea.	Ohio river.
60	Griffithianus Lea.	South Carolina.
60	Haysianus Lea.	Cumberland river.
60	Hembeli Conrad.	Louisiana.
60	heros Say. var. <i>U. multiplicatus</i> Lea. <i>undulatus</i> Say.	Fox river. Tennessee river. Wabash river.
60	heterodon Lea.	Schuylkill river.
60	Hildrethianus Lea. <i>Alasmodonta ambigua</i> Say.	Ohio river.
60	Hopetonensis Lea.	Darien, Georgia.
60	Hydianus Lea.	Teche river, La.
60	incrassatus Lea.	Chattahoochee river.
60	inflatus Lea. <i>Symphynota inflata</i> Lea. var. <i>U. Alabamensis</i> Conrad.	Alabama river.

Page.	Name.	Locality.
60	Unio intermedius Conrad.	Nolachucky riv., Tenn.
60	interruptus Raf.	Elk river, Tenn.
	<i>U. brevidens</i> Lea.	
	var.	Ohio river.
60	Jayensis Lea.	Florida.
60	jejunus Lea.	Roanoke river.
60	Kirtlandianus Lea.	Mahoning river.
60	lanceolatus Lea.	Tar river, N. C.
60	lapillus Say.	Detroit & Ohio rivers.
	<i>U. fabalis</i> Lea.	
61	lata Raf.	Ohio river.
	<i>Anodonta lata</i> Raf.	
	var. <i>U. dehiscens</i> Say.	Wabash river.
	<i>oriens</i> Lea.	
61	latiradiatus Conrad.	Nashville, Tenn., Har-
	<i>U. interruptus</i> Lea.	peth river.
61	Lecontianus Lea.	Conochee river, Ga.
61	lenior Lea.	Stone's river, Tenn.
61	leptodon Raf.	Ohio river.
	<i>U. tenuissimus</i> Lea.	
	var. <i>U. planus</i> Barnes.	Wisconsin.
	<i>velum</i> Say.	Scioto river.
	<i>Anodonta purpurascens</i> Swains.	
61	lienosus Conrad.	Alabama.
61	lineolatus Raf.	Ohio river.
	<i>U. securis</i> Lea.	
	var. <i>U. depressus</i> Raf.	
61	luteolus Lam.	Mohawk river.
	var. <i>U. siliquoides</i> Barnes.	Delaware river.
	<i>inflatus</i> Barnes.	Lake Erie.
62	Menkianus Lea.	Harpeth river.
62	metallicus Say.	Lake Chalco, Mexico.
	<i>U. cuprinus</i> Lea.	
62	metanevr Raf.	Ohio river.
	<i>U. metanevrus</i> Conrad.	
	var. <i>U. nodosus</i> Barnes.	Wabash & Scioto rivs.
62	monodontus Say.	Falls of Ohio.
	<i>U. soleniformis</i> Lea.	
62	Muhlfeldianus Lea.	Tennessee.
62	mytiloides Raf.	Ohio river.
	<i>U. pyramidatus</i> Lea.	
	var. <i>U. cardiacea</i> Say.	
62	Nashvillianus Lea.	Tennessee.
62	nasutus Say.	New York.
	var. <i>U. rostratus</i> Val.	

Page.	Name.	Locality.
62	Unio nervosus Raf.	Ohio.
	<i>U. Donaciformis</i> Lea.	
	var. <i>U. zigzag</i> Lea.	Falls of Ohio.
62	nexus Say.	Cumberland river.
	<i>U. Arcaformis</i> Lea.	
62	Nicklinianus Lea.	Mexico.
62	nitens Lea.	Long creek, Tenn.
62	nodulatus Raf.	Ohio river.
	<i>U. pustulatus</i> Lea.	
62	Novi-Eboraci Lea.	New York.
63	obesus Lea.	York river, Va.
63	obliquatus Raf.	Ohio.
	var. <i>U. ridibundis</i> Say.	Kentucky.
	<i>sulcatus</i> Lea.	
63	obliquus Lam.	Ohio river.
	<i>U. obovalis</i> Raf.	
	var. <i>U. ebenus</i> Lea.	
63	Ohioensis Raf.	Ohio river.
	<i>Anodonta Ohioensis</i> Raf.	
	var. <i>U. levissimus</i> Lea.	
63	ochraceus Say.	Passaic river.
	var. <i>Symphynota ochracea</i> Lea.	New Jersey.
	<i>Mytilus fluviatilis</i> Gmelin.	Schuylkill river.
63	olivarius Raf.	Ohio river, Kentucky.
	var. <i>U. ellipsis</i> Lea.	Tennessee.
63	ovalis Flem.	Lake Champlain.
	<i>U. nodulosus</i> Lam., &c. &c.	
63	ovatus Say.	Ohio river.
	<i>U. ventricosus</i> Desh.	
	var. <i>U. subovatus</i> Desh.	
	<i>occidens</i> Desh.	
63	oviformis Conrad.	Tennessee.
63	paludicolor Gould.	Everglades, Fla.
63	papyracea Gould.	Miami river.
63	parvus Barnes.	Ohio and Fox rivers.
64	paulus Lea.	Georgia.
64	pectorosus Conrad.	Harpeth river.
	<i>U. perdix</i> Lea.	
64	personatus Say.	Wabash river.
	var. <i>U. capillaris</i> Lea.	Cumberland river.
	<i>pileus</i> Lea.	
64	pictus Lea.	Harpeth river.
64	pillaris Lea.	Tennessee.
64	planilateris Conrad.	Yadkin river.
64	plenus Lea.	Ohio river.

Page.	Name.	Locality.
64	Unio plicatus Say.	Ohio.
	<i>U. Peruviana</i> Lam.	
	var. <i>U. rariplicata</i> Lam.	St. Peter's river.
	<i>Dombeyanus</i> Valenc.	Ohio.
	<i>undulata</i> Desh.	
	<i>multiplicata</i> Desh.	
64	politus Say.	Ohio.
	<i>U. subrotundus</i> Lea.	
64	pullus Conrad.	Sawney's creek.
65	purpuratus Lam.	Mississippi.
	<i>U. ater</i> Lea.	
	var. <i>U. lugubris</i> Say.	Bayou Teche.
	<i>Poulsoni</i> ? Conrad.	North Carolina.
	<i>ventricosus</i> Soland.	
65	purpuratus Say.	Mexico.
	<i>U. Medellinus</i> Lea.	
65	quadrulus Raf.	Ohio river.
	<i>U. asperrimus</i> Lea.	
	var. <i>Obliquaria quadrula</i> Raf.	
	<i>U. rugosus</i> Barnes.	
	<i>lachrymosus</i> Lea.	
65	radiatus Lam.	Virginia.
	<i>U. Virginiana</i> Lam.	
	var. <i>Mya radiata</i> Gmelin.	Wisconsin.
	<i>oblongata</i> Wood.	Potomac.
65	Rangianus Lea.	Ohio river.
65	Ravenelanus Lea.	French Broad river.
	<i>U. rudis</i> Conrad.	
65	rectus Lam.	Ohio river.
	<i>U. latissima</i> Raf.	
	var. <i>U. praelongus</i> Barnes.	Lake Erie.
	<i>Sageri</i> Conrad.	Detroit river.
65	reflexus Raf.	Alabama & Ohio rivers.
	<i>U. cornutus</i> Barnes.	
65	retusus Lam.	Ohio river.
	var. <i>U. torsa</i> Raf.	Tennessee.
	<i>obtusa</i> Say, Desh.	Wabash river.
65	Roanokensis Lea.	Roanoke river.
65	rotundatus Lam.	Bayou Teche.
	<i>U. subglobosus</i> Lea.	
	var. <i>U. suborbiculata</i> Lam.	Louisiana.
	<i>glebulus</i> Say.	
66	Sayi Ward.	Kentucky.
	var. <i>U. declivis</i> Conrad.	Ohio, Alabama.
66	Shepardianus Lea.	Hopeton, Ga., Altamaha riv.

Page.	Name.	Locality.
66	Unio simus Lea.	Tennessee.
66	Sloatianus Lea.	Chattahoochie river.
66	solidus Lea.	Mahoning river.
66	Sowerbianus Lea.	Tenn., Cumberland river.
66	spinosus Lea.	Altamaha river, Hope- ton and Darien, Ga.
66	splendidus Lea.	Altamaha river.
66	stapes Lea.	Alabama river.
66	stegarius Raf.	Scioto and Ohio rivers.
	<i>U. irroratus</i> Lea.	
66	subinflatus Conrad.	Savannah river.
66	subplanus Conrad.	Virginia.
66	subrostratus Say.	New York.
	<i>U. iris</i> Lea.	
	var. <i>U. nebulosus</i> Conrad.	Alabama.
67	subrotundus Raf.	Ohio river.
	<i>U. circulus</i> Lea.	
	var. <i>U. lens</i> Lea.	Tennessee.
67	subtentus Say.	Tennessee, Alabama.
67	Tampicoensis Lea.	Tampico river.
67	Tappanianus Lea.	Juniata river.
	<i>U. viridis</i> Conrad.	
67	tenebrosus Conrad.	Virginia.
	<i>U. tenerus</i> Raf.	
67	teres Raf.	Mississippi & Wabash rivers.
	<i>U. anodontoides</i> Lea.	
67	tetralasmus Say.	Bayou St. John.
67	trapezoides Lea.	Lake St. Joseph.
	var. <i>U. interruptus</i> Say.	Louisiana.
67	triqueter Raf.	Falls of Ohio.
	<i>U. triangularis</i> Barnes.	
	var. <i>U. cuneatus</i> Swains.	
	<i>formosus</i> Lea.	
67	Troostensis Lea.	Cumberland river.
	<i>U. trabalis</i> Conrad.	
67	truncatus Raf.	Wabash river, Ohio.
	<i>U. elegans</i> Lea.	
67	tuberculatus Raf.	Harpeth river.
	<i>U. verrucosus</i> Barnes.	
	var. <i>U. tuberculosa</i> Val.	Ohio river.
67	turgidus Lea.	New Orleans.
	<i>U. Mortoni</i> Conrad.	
67	Vanuxemensis Lea.	Cumberland river.
68	venustus Lea.	Potosi, Missouri.

Page.	Name.	Locality.
68	Unio verrucosus Raf.	Ohio river.
	<i>U. tuberculatus</i> Barnes.	
68	Watereensis Lea.	Wateree canal.
	<i>U. Raveneli</i> Conrad.	
68	Zieglerianus Lea.	Cumberland river.
68	Margaritana arcuata Lea.	Altamaha river.
68	calceola Lea.	Ohio.
	<i>Unio calceolus</i> Lea.	
68	complanata Barnes.	Ohio river.
	<i>Symphynota complanata</i> Lea.	
	var. <i>Alasmodonta complanata</i> .	Tennessee.
68	confragosa Say.	Illinois.
	<i>Alasmodonta confragosa</i> Say.	
68	costata Raf.	Ohio.
	<i>Alasmodonta rugosa</i> Barnes.	
	var. <i>Alasmodonta abducta</i> Say.	Wabash river.
68	Curreyana Lea.	Stone's river.
68	deltoidea Lea.	Scioto river.
68	margaritifera Linn.	Hudson river.
	<i>Alasmodonta arcuata</i> Barnes.	
69	marginata Say.	New York.
	<i>Alasmodonta marginata</i> Say.	
	var. <i>Alasmodonta truncata</i> Say.	New Jersey.
	<i>Unio cariosa</i> Lam. var. ?	Lake Erie.
	<i>varicosa</i> Lam.	Schuylkill river.
	<i>calceolus</i> Say.	
	<i>Mya regulosa</i> Wood.	Ohio river.
69	Raveneliana Lea.	Swananoë river.
69	undulata Say.	New York.
	<i>Alasmodonta undulata</i> Say.	
	var. <i>Alasmodonta sculptilis</i> Say.	Virginia.
	<i>Mya undulata</i> Wood.	
	<i>Unio hians</i> Valenc.	
	<i>glabratus</i> Sowerby.	New Jersey.
71	Anodonta Benedictensis Lea.	Lake Champlain.
	<i>Symphynota Benedictensis</i> Lea.	
71	Couperiana Lea.	Hopeton Ga.
71	cylindracea Lea.	Medellin river.
71	decora Lea.	Chillicothe.
71	edentula Say.	Ohio.
	<i>Alasmodonta edentula</i> Say.	
	var. <i>Alasmodonta areolatus</i> Swain.	Wabash river.
71	excurvata De Kay.	Passaic river.
	<i>A. fluvialis</i> ? Lea.	
71	ferruginea Lea.	Indiana.
71	Ferussaciana Lea.	Cincinnati.

Page.	Name.	Locality.
72	Anodonta fluviatilis Lea.	Hudson river.
	<i>Mytilus fluviatilis</i> Sol.	
	var. <i>Mytilus illitus</i> Sol.	New Jersey.
	<i>A. cataracta</i> Say.	New York.
	<i>marginata</i> Say.	Massachusetts.
	<i>implicata</i> Say.	Connecticut.
	<i>teres</i> Conrad.	South Carolina.
72	Footiana Lea.	Ohio.
72	gibbosa Say.	South Carolina.
72	gigantea Lea.	Port Gibson.
72	glauca Valenc.	Acapulco.
72	grandis Say.	Fox river.
	<i>A. corpulenta</i> Cooper.	
72	imbecillis Say.	Wabash river and Cincinnati.
	<i>A. incerta</i> Lea.	
72	Newtonensis Lea.	New Jersey.
72	Nuttalliana Lea.	Wahlamat river.
72	Oregonensis Lea.	Wahlamat river.
72	ovata Lea.	Marietta.
72	Pepiniana Lea.	Lake Pepin.
73	salmonia Lea.	Poland, Ohio.
73	Stewartiana Lea.	Louisiana.
73	subcylindracea Lea.	Oak Orchard cr., N. Y.
73	suborbiculata Say.	Illinois.
	var. <i>A. rotundatus</i> Swains.	Alton, Illinois.
73	undulata Say.	New York.
	<i>A. rugosus</i> Swains.	
	var. <i>A. Pennsylvanica</i> Lam.	Pennsylvania.
73	Wahlamatensis Lea.	Wahlamat river.
73	Wardiana Lea.	Ohio.
	<i>A. virgata</i> Conrad.	

Family **Chamacea.**

74	Chama arcinella Linn.	Florida.
75	exogyra Conrad.	Upper California.
75	producta Brod.	Mexico.

Family **Mytilacea.**

76	Modiola capax Conrad.	California.
76	cicercula Möll.	Greenland.
	<i>Mytilus decussatus</i> Mont.	
76	discors Linn.	Greenland.
	<i>Mytilus discors</i> Linn.	
	<i>lævigata</i> Gray.	
	<i>Modiola discrepans</i> Lam.	

Page.	Name.	Locality.
76	Modiola dubia.	Greenland.
76	<i>glandula</i> Totten.	Massachusetts.
76	<i>modiolus</i> Linn. (var.)	United States.
	<i>Modiola papuana</i> Lam.	
	<i>Mytilus modiolus</i> Linn.	
	<i>barbatus</i> Linn.	
76	<i>nexa</i> Gould.	Massachusetts.
76	<i>pectinula</i> Gould.	Massachusetts.
77	<i>plicatula</i> Lam.	New York.
	<i>Mytilus demissus</i> Wood.	
	var. <i>Modiola semicostata</i> Conrad.	Massachusetts.
77	<i>tulipa</i> Lam.	United States.
77	Mytilus bifurcatus Conrad.	California.
77	<i>Californianus</i> Conrad.	California.
77	<i>cubitus</i> Say.	Charleston, S. Ca.
77	<i>hamatus</i> Say.	Mobile.
77	<i>leucophantus</i> Conrad.	Georgia.
78	Mytilimeria Nuttallii Conrad.	California.
78	<i>Pinna muricata</i> Linn.	South Carolina.
79	<i>saccata</i> Linn. (var.)	California.
	<i>P. Nuttallii</i> Conrad.	

ORDER UNIMUSCULOSA.

Family Pectinacea.

83	Lima sulcata Leach.	Greenland.
83	Pecten circularis Sowerby.	California.
84	<i>dislocatus</i> Say.	Florida.
85	Islandicus Chemn. (var.)	Greenland.
	var. <i>P. Pealeii</i> Conrad.	Massachusetts.
	<i>Cinnabarina</i> Dillw.	B'ks of Newfoundland.
85	irradians Lam.	New York, N. Jersey.
	<i>P. turgidus</i> Sowerby.	
	var. <i>P. concentricus</i> Say.	Connecticut.
85	lati-auratus Conrad.	California.
85	Magellanicus Gmelin.	Newfoundland, N. J.,
	<i>P. tenuicostata</i> Mighels.	Maine.
85	mesotimeris Conrad.	California.
88	Hinnites gigantea Gray (var.)	California.
	<i>Ostrea gigantea</i> Wood.	
	var. <i>Hinnita Poulsoni</i> Conrad.	
89	Spondylus longitudinalis Lam.	America.
89	pictorium Chemn.	West Mexico.
89	Exogyra costata.	New Jersey.

Family **Ostracea.**

Page.	Name.	Locality.
89	Ostræa borealis Lam.	N. Y., Mass., Conn.
	var. <i>Ostrea Canadensis</i> Brug.	New Jersey.
91	Virginica Gmelin.	Maryland, Virginia.
	<i>Ostrea Virginiana</i> List.	
91	Gryphæa convexa Say (fossil).	New Jersey.
92	Anomia aculeata Müll.	New York.
92	ephippium Linn.	New York.

CLASS BRACHIOPODA.

Family **Tendinosa.**

92	Terebratula Californiana Kust.	California.
92	caput-serpentis Lam.	Maine.
	<i>T. costata</i> Lowe.	
	<i>aurita</i> Flem.	
	<i>pubescens</i> Müll.	
93	psittacea Lam.	Newfoundland.
93	septentrionalis Couth.	Maine.

CLASS GASTEROPODA.

ORDER **HYDROBRANCHIATA.**

95	Eolis Bostoniensis Couth.	Boston.
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ORDER **CIRRHOBANCHIATA.**

96	Dentalium annulatum Mighels.	Maine.
96	entalis Linn. (var.)	Maine.
96	dentalis Linn.	Boston.
	<i>D. attenuatum</i> Say.	

ORDER **CYCLOBRANCHIATA.**

97	Chiton albolineatus Brod.	Mazatlan.
97	apiculatus Say.	New York.
	<i>C. pectinatus</i> Gould, p. 98.	
97	armatus Nutt.	Upper California.
	<i>C. muscosus</i> Gould.	
97	cinereus Linn. (var.)	Greenland.
	<i>C. minimus</i> Chemn.	
	<i>cinex</i> Chemn.	
98	Emersonianus Couth.	Massachusetts bay.
	var. <i>C. vestitus</i> Sowerby.	Arctic ocean.

Page.	Name.	Locality.
98	Chiton fulminatus <i>Couth.</i>	Massachusetts bay.
	<i>C. lævigatus</i> <i>Flem.</i>	
	var. <i>C. latus</i> <i>Lowe.</i>	Northern Ocean.
98	<i>lævigatus</i> <i>Sowerby.</i>	California.
98	Magdalenensis <i>Hinds.</i>	California.
99	<i>scaber</i> <i>Reeve.</i>	Monterey, California.
100	Patella candida <i>Couth.</i>	Maine.
100	<i>cerea</i> <i>Möller.</i>	Greenland.
101	Patella diaphana <i>Nutt.</i>	Upper California.
101	<i>fenestrata</i> <i>Nutt.</i>	Upper California.
101	<i>lævigata</i> <i>Nutt.</i>	Upper California.
101	<i>leucophæa</i> <i>Gmelin.</i>	Upper California.
101	<i>mammillata</i> <i>Nutt.</i>	Upper California.
101	Mazatlantica <i>Sowerby.</i>	Mazatlan.
101	<i>monticolor</i> <i>Nutt.</i>	Upper California.
101	Oregana <i>Nutt.</i>	Upper California, Co- lumbia river.
102	<i>pileata</i> <i>Nutt.</i>	Upper California.
102	<i>rubella</i> <i>Fabr.</i>	Greenland.
102	<i>spectrum</i> <i>Nutt.</i>	Upper California.
102	<i>strigillata</i> <i>Nutt.</i>	Upper California.
102	<i>tessellata</i> <i>Nutt.</i>	Upper California.
102	<i>umbonata</i> <i>Nutt.</i>	Upper California.

ORDER CERVICOBRANCHIATA.

Family Fissuracea.

103	Lottia alveus <i>Conrad.</i>	New York.
103	<i>scabra</i> <i>Nutt.</i>	Upper California.
103	<i>testudinalis</i> <i>Müll.</i>	Mass., Greenland.
	<i>Patella testudinalis</i> <i>Müll.</i>	
105	Fissurella alternata <i>Say.</i>	Maryland.
105	<i>crenulata</i> <i>Sowerby.</i>	Up. Calif., Monterey.
107	Cemoria Noachina <i>Linn.</i>	Maine, Greenland.
	<i>Patella Noachina</i> <i>Linn.</i>	
	<i>Fissurella Noachina</i> <i>Sowerby.</i>	

Family Capulacea.

107	Crepidula exuviata <i>Nutt.</i>	Upper California.
107	<i>forficata</i> <i>Linn.</i>	New York.
107	<i>glauca</i> <i>Say.</i>	Rhode Island.
107	Navicelloides <i>Nutt.</i>	Upper California.
107	<i>onyx</i> <i>Sowerby.</i>	Upper California.
	<i>C. rugosa</i> <i>Nutt.</i>	
107	<i>plana</i> <i>Say.</i>	New York.
108	Calyptræa striata <i>Say.</i>	Rhode Island.

Family **Macrostromata.**

Page.	Name.	Locality.
109	Sigaretus perspectivus Say.	South Carolina.
109	Haliotis Californiensis Swains.	California.
110	<i>corrugata</i> Gray.	California.
110	Cracherodii Leuch.	California.
	<i>H. glaber</i> Schub.	
110	<i>splendens</i> Reeve.	California.

Family **Tubispiracea.**

111	Skenea serpuloides Flem.	Boston harbor.
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ORDER **PLEUROBRANCHIATA.**Family **Bullacea.**

112	Bulla canaliculata Say.	New Bedford.
113	<i>debilis</i> Gould.	Massachusetts bay.
113	<i>Gouldii</i> Couth.	Boston bay.
113	<i>insculpta</i> Totten.	New York.
113	<i>obstricta</i> Gould.	New Bedford.
113	<i>oryza</i> Totten.	New Bedford.
113	<i>triticea</i> Couth.	Boston Bay.

ORDER **PULMOBRANCHIATA.**Family **Colimacea.**

119	Helix albolabris Say.	N. Y., Georgia, Ohio.
	<i>Tridopsis albolabris</i> Beck.	
119	<i>alternata</i> Say.	New York.
	<i>H. scabra</i> Lam.	
	var. <i>H. radiata</i> Gmelin.	Ohio.
	<i>Patula alternata</i> Held.	Tennessee.
	<i>Euryomphala alternata</i> Beck.	Massachusetts.
120	<i>appressa</i> Say.	New York.
	<i>Tridopsis appressa</i> Beck.	
	var. <i>Helicodonta linguifera</i> Fer.	Missouri.
120	<i>arborea</i> Say.	New York.
	<i>H. Ottonis</i> Pfr.	
	var. <i>Helicella arborea</i> Beck.	
121	<i>areolata</i> Sowerby.	Columbia river.
122	<i>auriculata</i> Say.	Florida.
	<i>Polygyra auriculata</i> Say.	
	var. <i>Helicodonta auriculata</i> Fer.	St. Augustine.
	<i>Daedalochila auriculata</i> Beck.	

Page.	Name.	Locality.
122	Helix avara Say.	Florida.
	<i>Polygyra avara</i> Say.	
	var. <i>Helicodonta avara</i> Fer.	Louisiana.
	<i>H. Sayi</i> Wood.	
	<i>auriculata</i> Binney.	
	<i>Stenotrema avara</i> Raf.	
	<i>Daedalochila avara</i> Beck.	
123	Berlanderiana Moric.	Texas.
	<i>H. virginialis</i> Jan.	
125	Buffoniana Pfr.	Mexico.
125	Californiensis Lea.	Columbia riv., Calif'a.
	<i>H. Nickliniana</i> Lea.	
127	Caroliniensis Lea.	New York.
	<i>H. palliata</i> ? Say.	
128	cellaria Müll.	United States.
	<i>H. glaphyra</i> ? Say.	
128	cereolus Mühlf.	Florida.
	<i>H. septemvoluta</i> Fer.	
	var. <i>H. planorbula</i> Lam.	
	<i>polygyrata</i> Binney.	
	<i>Polygyra septemvoluta</i> Say.	
	<i>planorbula</i> Beck.	
129	chersina Say.	Massachusetts.
	<i>H. fulva</i> Drap.	
131	clausa Raf.	Tennessee.
	<i>Helicodonta clausa</i> Fer.	
	var. <i>Helix inflecta</i> Say.	Missouri.
	<i>Tridopsis clausa</i> Raf.	Carolina.
	<i>inflecta</i> Beck.	
	<i>Gonostoma clausum</i> Held.	
131	coactiliata Fer.	Tabasco.
	<i>H. fasciata</i> Nyst.	
132	Columbiana Lea.	California.
132	convexa Raf.	Ohio.
	<i>H. hirsuta</i> Fer. var. a.	
	<i>monodon</i> Rack., Binney.	Pennsylvania.
	<i>fraterna</i> Say.	
	<i>H. Leaii</i> Ward.	
	<i>Stenotrema convexa</i> Raf.	
	<i>Tridopsis convexa</i> Beck.	
	<i>fraterna</i> Beck.	
134	Cumberlandiana Lea.	Tennessee.
135	demissa Binney.	Alabama.
135	dentifera Binney.	Vermont.

Page.	Name.	Locality.
136	Helix diodonta Say. <i>H. Sayi</i> Binney.	Vermont.
137	Edgariana Lea. <i>Carocolla Edgariana</i> Lea.	Tennessee.
137	elevata Say. <i>Helicodonta Knoxvilleana</i> F. var. <i>Mesodon helicinum</i> Raf. <i>Tridopsis elevata</i> Beck.	Ohio. Tennessee.
138	fallax Say. var. <i>H. tridentata</i> Binney.	New York.
139	fidelis Gray. var. <i>H. Nuttalliana</i> Lea.	Columbia river. Oregon.
140	fuliginosa Griff. <i>H. capillacea</i> Pfr.	Ohio.
141	fulva Drap. (var.) <i>H. trochulus</i> Dillw. <i>trochilus</i> Flem. <i>nitidula</i> Alten. <i>chersina</i> Say. <i>Mandalisci</i> Bivon. <i>Conulus fulvus</i> Fitz. <i>Petasia trochiformis</i> Beck. <i>Polita fulva</i> Held. <i>H. Mortoni</i> Jeffr. <i>Alderii</i> Gray.	Massachusetts.
143	griseola Pfr. <i>H. cicercula</i> Fer. var. <i>H. splendidula</i> Ant. <i>Bradybaena pisum</i> Beck.	Mexico. Vera Cruz.
143	gularis Say. <i>Helicodonta gularis</i> Fer. var. <i>Sagda? gularis</i> Beck. <i>Helix suppressa</i> Say.	Ohio.
144	Hindsii Pfr.	Mexico.
144	hirsuta Say. <i>Helicodonta hirsuta</i> Fer. var. <i>Helix fraterna</i> Wood. <i>sinuata</i> y Gmelin. <i>Helix isognomostomos</i> Gmelin. <i>Tridopsis hirsuta</i> Beck. <i>Helix stenotrema</i> Fer.	New York. Pennsylvania. Massachusetts. Rhode Island. Connecticut. Indiana.
146	indentata Say.	New Jersey.
147	inornata Say.	South Carolina.
147	interna Say. <i>H. pomum-Adami</i> Green.	Ohio.

Page.	Name.	Locality.
147	Helix intertexta Binney.	Ohio.
148	labyrinthica Say. <i>Helicodonta labyrinthica</i> Fer.	New York.
149	lævigata Raf. <i>Helix inornata</i> Binney. var. <i>Helicella lævigata</i> Fer. <i>Mesomphix lævigata</i> Raf.	Ohio.
151	ligera Say. <i>H. Wardiana</i> Lea. var. <i>H. Rafinesquea</i> Fer.	Ohio. Kentucky.
151	lineata Say. <i>Helicella lineata</i> Fer. var. <i>Euryomphala lineata</i> Beck.	New York. Massachusetts.
152	lucubrata Say.	Mexico.
153	major Binney. var. <i>H. albolabris</i> Fer.	Georgia.
155	minuscula Binney.	Ohio.
155	Mobiliana Lea.	Mobile.
155	multidentata Gould.	Vermont.
155	multilineata Say. <i>Helicogena multilineata</i> Fer. var. <i>Eurycrotera multilineata</i> Beck.	Ohio.
157	nemoralis Linn. (var.) <i>H. subglobosa</i> Binney.	Vermont.
159	obstricta Say. var. <i>H. denotata</i> Fer. <i>Carocolla helicoides</i> Lea.	Ohio. Kentucky.
160	Oregonensis Lea.	Oregon.
161	palliat a Say. <i>Helix notata</i> Desh. var. <i>Helicodonta denotata</i> Fer. <i>Helix Caroliniensis</i> Lea. <i>Tridopsis palliata</i> Beck.	New York. Ohio. Vermont. Carolina.
162	Pennsylvanica Green. <i>H. clausa</i> Say.	Pennsylvania.
163	perspectiva Say. <i>Helicella perspectiva</i> Fer. var. <i>Helix patula</i> Desh. <i>Euryomphala perspectiva</i> Beck. <i>Patula perspectiva</i> Held.	New York.
165	planorboides Raf. <i>Helicella planorboides</i> Fer. var. <i>Mesomphix planorboides</i> Raf. <i>Helix concava</i> Say. <i>Circinaria planorboides</i> Beck.	Ohio. Illinois.

Page.	Name.	Locality.
167	Helix profunda Say. <i>Helicella Richardi</i> Fer. var. <i>Tridopsis Richardi</i> Beck.	Ohio.
167	pulchella Müll. (var.) <i>H. paludosa</i> Walk., Mont., &c. &c. <i>H. minuta</i> Say.	Ohio.
168	pura Alder. (var.) <i>Helix nitidula</i> ♂ Drap. <i>lenticula</i> Held. <i>electrina</i> Gould. <i>nitida</i> Risso. <i>Helicella nitidosa</i> Beck. <i>Polita nitidosa</i> Held. <i>Zonites purus</i> Gray. <i>Helix striatula</i> Gray. <i>radiatula</i> Alder. <i>Zonites radiatulus</i> Gray. <i>Helix viridula</i> Menke. <i>clara</i> Held. <i>Helicella viridula</i> Beck. <i>Polita clara</i> Held.	Ohio.
169	pustula Fer. <i>Helicodonta pustula</i> Fer.	Texas.
173	Say Binney. <i>H. diodonta</i> Say.	Vermont.
176	solitaria Say. <i>Euryomphala solitaria</i> Beck.	Ohio.
176	spinosa Lea. <i>Carocolla spinosa</i> Lea.	Alabama.
177	striatella Anthony. <i>H. perspectiva</i> Fer.	Ohio.
178	subplana Binney.	New York.
180	Texasiana Moric. <i>H. triodonta</i> Jan. var. <i>H. fatigiata</i> Binney. <i>Polygyra plicata</i> Say. <i>Tridopsis tridonta</i> Beck. <i>Polygyra fatigiata</i> Say.	Texas. Alabama.
180	thyroides Say. <i>Helix thyroidus</i> Say. var. <i>Helicodonta thyroidus</i> Say. <i>Mesodon leucodon</i> Rafin. <i>Tridopsis thyroidus</i> Beck.	New York. Ohio.
180	Townsendiana Lea.	Wahlamat.

Page.	Name.	Locality.
181	Helix tridentata Say. <i>Helicodonta tridentata</i> Say. var. <i>Tridopsis lunula</i> Rafin., Beck. <i>tridentata</i> Beck.	New York. N. England, Canada. Pennsylvania.
182	Troostiana Lea. <i>Polygyra Troostiana</i> Lea.	Tennessee.
182	tudiculata Binney.	California.
183	Vancouverensis Lea.	Oregon.
184	ventrosula Pfr.	Mexico.
186	zaleta Say. <i>H. albolabris</i> Fer.	New York.
194	Bulimus dealbatus Say. <i>Helix dealbata</i> Say. var. <i>Buliminus dealbatus</i> Beck. <i>Zebrina dealbata</i> Held.	Tennessee. Alabama.
196	fenestratus Pfr.	Mexico.
198	Gruneri Pfr.	Mexico.
198	Hegewischi Pfr.	Mexico.
201	Mexicanus Lam. <i>Cochlogena vittata</i> Fer. var. <i>Bulimulus Mexicanus</i> Beck.	Tabasco.
206	punctatissimus Less. (var.) <i>Clausilia exesa</i> Pot. et M. <i>Cochlodina exesa</i> Fer. <i>Auricula fuscagula</i> Lea. <i>Pupa septemPLICATA</i> Mühlf. <i>Odontostomus fuscagulus</i> Beck. <i>Bulimus septemPLICATUS</i> Pfr.	Mexico.
208	rudis Anton.	Mexico.
208	Schiedeanus Pfr. <i>B. xanthostomus</i> Wiegman. var. <i>B. candidissimus</i> Nyst.	Mexico.
213	zebra Müll. <i>Buccinum zebra</i> Müll., &c. &c.	Mexico.
218	Achatina fasciata Müll. <i>Buccinum fasciatum</i> Müll., &c. &c.	Florida.
219	lubrica Müll. <i>Helix lubrica</i> Müll., &c. &c.	Massachusetts.
221	Rangiana Pfr.	Mexico.
222	trochlea Pfr.	Mexico.
222	truncata Gmel. <i>Bulla truncata</i> Gmel. <i>Buccinum striatum</i> Chemn. <i>Bulimus striatus</i> Brug.	Florida, &c.

Page.	Name.	Locality.
	<i>Cochlicopa rosea</i> Fer.	
	<i>Achatina rosea</i> Desh.	
	<i>striata</i> Lam.	
	<i>Polyphemus glans</i> Say.	
	<i>Glandina truncata</i> Say.	
223	Achatina virginea Linn.	Florida, &c.
	<i>Bulla Virginea</i> Linn., &c. &c.	
224	Pupa armifera Say.	Ohio.
	<i>P. armigera</i> Pot. et M.	
	var. <i>P. rupicola</i> Pfr.	
225	contracta Say.	New York.
225	corticaria Say.	Ohio.
	<i>Odostomia corticaria</i> Say.	
226	fallax Say.	New York.
	<i>P. albolabris</i> Ward.	
	var. <i>P. simplex</i> Binney.	Massachusetts.
	<i>Cyclostoma marginatum</i> Say.	
	<i>P. placida</i> Say.	
227	Gouldii Binney.	New York.
228	milium Gould.	Vermont.
229	muscorum Linn. (var.)	New York.
	<i>Turbo muscorum</i> Linn., &c.	
	<i>P. badia</i> Adams.	
230	ovata Say.	New York.
	<i>Vertigo ovata</i> Say.	
	var. <i>P. modesta</i> Say.	
	<i>P. ovulum</i> Pfr.	
230	pentodon Say.	New York.
	<i>Vertigo pentodon</i> Say.	
	var. <i>P. Tappaniana</i> Ward.	Vermont.
	<i>curvidens</i> Gould.	Ohio.
231	rupicola Say.	S. Carolina, Florida.
232	simplex Gould.	Massachusetts.
235	Cylindrella Goldfussi Menke.	Texas.
235	Liebmanni Pfr.	Mexico.
250	Succinea avara Say.	New York.
	var. <i>S. vermeta</i> Say.	
250	campestris Say.	New York.
	<i>Cochlohydra campestris</i> Fer.	
250	Grœnlandica Beck.	Greenland.
250	inflata Lea.	Carolina.
250	Oregonensis Lea.	Oregon.
250	ovalis Say.	New York.
	var. <i>Cochlohydra ovalis</i> Fer.	Ohio.

Family **Cyclostomacea.**

Page.	Name.	Locality.
255	Cyclostoma dentatum Say.	Florida.
257	Mexicanum Menke. (<i>Aperostoma</i>) Troschel.	Mexico.
259	Sayanum Anthony.	Ohio.
262	Helicina occulta Say.	Indiana.
262	orbiculata Say. <i>Polygyra orbiculata</i> Say.	East Florida.

Family **Auriculacea.**

263	Carychium exiguum Say. <i>Pupa exigua</i> Say.	Vermont.
264	Auricula bidentata Say. <i>Auricula cornea</i> Desh. var. <i>Melampus bidentatus</i> Say.	New York. Massachusetts.
264	denticulata Mont. (var.) <i>Actron denticulatus</i> Flem. <i>Jaminea denticulata</i> Leach. <i>Conovulus denticulatus</i> Gray. <i>Auricula myosotis</i> Jeffr.	Massachusetts.
265	Sayi Kust.	New Jersey.

Family **Lymnæadæ.**

267	Planorbis albus Müll. (var.) <i>Helix alba</i> Gmel. <i>P. villosa</i> Poir. <i>albus</i> Turton. <i>hirsutus</i> Gould.	Massachusetts.
267	armigerus Say.	New York.
267	bicarinatus Say. var. <i>P. engonatus</i> Conrad.	New York. Georgia.
267	campanulatus Say.	New York.
267	corpulentus Say.	Winnipeg river.
267	deflectus Say. var. <i>P. virens</i> Adams.	Ohio. Vermont.
267	dilatatus Gould.	Massachusetts.
267	exacutus Say.	New York.
267	lentus Say.	South Carolina.
268	paryus Say. var. <i>P. elevatus</i> Adams. <i>concavus</i> Anthony.	New York. Vermont. Ohio.
268	trivolvus Say. var. <i>P. regularis</i> Lea. <i>fullax</i> Say.	New York. New England. New Jersey.

Page.	Name.	Locality.
268	<i>Lymnaea appressa</i> Say.	Vermont.
268	<i>attenuata</i> Say.	Mexico.
268	<i>asperata</i> Say.	Ohio.
	var. <i>L. umbilicata</i> Adams.	New Bedford.
268	<i>catascopium</i> Say.	New York.
	<i>L. emarginata</i> Say.	
	var. <i>L. Virgineana</i> Lam.	Virginia.
	<i>cornea</i> Val.	
	<i>pinguis</i> Say.	Wisconsin.
	<i>decollata</i> Mighels.	Unity, Maine.
269	<i>columella</i> Say.	Massachusetts.
	var. <i>L. acuminata</i> Adams.	Woburn.
	<i>chalybea</i> Gould.	Cambridge.
	<i>coarctata</i> Lea.	Rhode Island.
	<i>macrostoma</i> Say.	Cayuga lake, N. Y.
269	<i>desidiosa</i> Say.	New York.
	var. <i>L. acuta</i> Lea.	Massachusetts.
	<i>Philadelphica</i> Lea.	Pennsylvania.
269	<i>elodes</i> Say.	New York.
269	<i>elongata</i> Say.	New York.
	<i>L. umbrosa</i> Say.	
269	<i>expansa</i> Hald.	Vermont.
269	<i>ferruginea</i> Hald.	Oregon.
269	<i>fragilis</i> Linn. (var.)	New York.
	<i>L. palustris</i> Dr.	
	<i>L. speciosa</i> Ziegl.	
	var. <i>L. corvus</i> Parr.	
269	<i>gracilis</i> Jay.	Vermont.
	<i>Acella gracilis</i> Hald.	
269	<i>Grœnlandica</i>.	Greenland.
269	<i>humilis</i> Say.	New York.
	var. <i>L. modicella</i> Say.	Maine.
	<i>parva?</i> Lea.	Ohio.
269	<i>jugularis</i> Say.	New York.
270	<i>Lindsleyi</i> De Kay.	Connecticut.
270	<i>megasoma</i> Say.	N. W. Territory.
270	<i>Nuttalliana</i> Lea.	Oregon.
270	<i>obrussa</i> Say.	Philadelphia.
270	<i>pallida</i> Adams.	Lake Champlain.
270	<i>reflexa</i> Say.	New York.
	var. <i>L. exilis</i> Lea.	Ohio.
270	<i>solida</i> Lea.	Oregon.
271	<i>umbrosa</i> Say.	New York.
	var. <i>L. elongata</i> Say.	Connecticut.

Page.	Name.	Locality.
271	Lymnæa Vahlîi Beck.	Greenland.
	<i>Limnophysa Vahlîi Beck.</i>	
271	Physa ancillaria Say.	Pennsylvania.
	var. <i>P. Sayi</i> Tappan.	Ohio.
271	distorta Hald.	St. Louis.
271	fragilis Mighels.	Maine.
271	gyrina Say.	Ohio.
	var. <i>P. elliptica</i> Lea.	Indiana.
271	heterostropha Say.	New York.
	var. <i>P. aurea</i> Lea.	Virginia.
271	hypnorum Linn. (var.)	New York.
	<i>P. elongata</i> Say.	
271	obesa De Kay.	Mohawk river.
271	osculans Hald.	Mexico.
271	scalaris Jay.	Florida.
272	Ancylus diaphanus Hald.	Ohio.
272	fuscus Adams.	Massachusetts.
272	obscurus Hald.	Tennessee.
272	parallelus Hald.	New England.
272	rivularis Say.	Pennsylvania.
272	tardus Say.	Vermont.

ORDER **PECTINIBRANCHIATA.**Family **Melaniana.**

272	Melania æqualis Hald.	Nolachucky river.
272	altilis Lea.	Susquehannah river.
272	alveare Conrad.	Tennessee.
272	annulifera Conrad.	Alabama.
272	approxima Hald.	Tennessee.
272	armigera Say.	Tennessee.
273	bella-crenata Hald.	Alabama.
273	Boykiniana Lea.	Georgia.
273	Buddii Lea.	Tennessee.
273	caliginosa Lea.	Tennessee.
273	canaliculata Say.	Ohio.
273	catenaria Say.	South Carolina.
273	catenoides Lea.	Georgia.
273	Cincinnatiensis Lea.	Ohio.
273	clavæformis Lea.	Tennessee.
273	comma Conrad.	Alabama.
273	congesta Conrad.	Alabama.
273	conica Say.	Ohio.
273	costulata Lea.	Tennessee.

Page.	Name.	Locality.
273	Melania crebricostata Lea.	Tennessee.
273	depygis Say.	Ohio.
273	dubiosa Lea.	Alabama.
273	Duttoniana Lea.	Tennessee.
273	ebenum Lea.	Tennessee.
273	Edgariana Lea.	Tennessee.
273	elevata Say.	Ohio.
273	excisa Lea.	Alabama.
	(<i>Schizostoma</i>) Lea.	
273	excurata Conrad.	Tennessee.
273	exilis Hald.	Ohio.
	var. <i>M. Kirtlandiana</i> Lea.	Indiana.
273	gracilis Anthony.	Ohio.
273	Haysiana Lea.	Alabama.
273	Hydei Conrad.	Alabama.
274	impressa Lea.	Alabama.
274	incisa Lea.	Alabama.
	<i>Anculotus incisus</i> Lea.	
274	interrupta Hald.	Tennessee.
274	Jayana Lea.	Tennessee.
274	læta Jay.	Alabama.
	var. <i>M. robusta</i> Lea.	Coosa river.
274	laqueata Say.	Tennessee.
274	Le Contiana Lea.	Georgia.
274	lima Conrad.	Alabama.
274	livescens Menke.	Lake Erie.
	var. <i>M. Niagarensis</i> Lea.	Niagara.
274	multilineata Say.	Virginia.
	<i>M. Virginica?</i> Say.	
274	nassula Conrad.	Alabama.
274	nupera Say.	Indiana.
	<i>Melanopsis semigranulosa.</i>	
274	occidentalis Lea.	Ohio.
274	olivula Conrad.	Alabama.
274	Pagoda Lea.	Tuscaloosa.
	(<i>Schizostoma</i>) Lea.	
274	perfusca Lea.	Tennessee.
274	plicatula Lea.	Tennessee.
274	plicifera Lea.	Wahlamat river.
274	prasinata Conrad.	Alabama.
274	proxima Say.	South Carolina.
	var. <i>M. carinata</i> Rav.	North Carolina.
274	regularis Lea.	Tennessee.
274	Rogersii Conrad.	Alabama.

Page.	Name.	Locality.
274	Melania salebrosa Conrad.	Tennessee.
274	Sayii Ward.	Ohio.
275	semicarinata Say.	Ohio.
275	simplex Say.	Virginia.
275	sordida Lea.	Tennessee.
275	striatula Lea.	Tennessee.
275	Stygia Say.	Cumberland river.
275	subularis Lea.	Niagara.
275	suturalis Hald.	Ohio.
275	symmetrica Hald.	Virginia.
275	Taitiana Lea.	Alabama.
275	teres Lea.	Tennessee.
275	Troostiana Lea.	Tennessee.
275	tuberculata Lea.	Tennessee.
275	uncialis Hald.	Tennessee.
275	undulata Say.	Ohio.
275	varicosa Ward.	Ohio.
275	venusta Lea.	Tennessee.
275	Virginica Say.	Virginia.
276	Anculotus angulatus Conrad.	Alabama.
276	carinatus De Kay.	Lake Champlain.
276	crassus Hald.	Tennessee.
276	dissimilis Say.	Pittsburg.
	<i>Paludina dissimilis</i> Say.	
276	geniculatus Hald.	East Tennessee.
	<i>Lithasia geniculata</i> Hald.	
276	integer Say.	Ohio.
	var. <i>A. concolor</i> Anthony.	Indiana.
276	Kirtlandianus Anthony.	Ohio.
276	monodontoides Conrad.	Virginia.
	var. <i>A. dentatus</i> Couth.	Potomac river.
276	nigrescens Conrad.	Maryland.
276	obovatus Say.	Alabama.
	<i>Melania obovata</i> Say.	
276	pictus Conrad.	Alabama.
276	plicatus Conrad.	Alabama.
276	prærosus Say.	Ohio.
	var. <i>A. virgatus</i> Lea.	Tennessee.
276	rubiginosus Lea.	Alabama.
276	subglobosus Say.	Virginia.
	<i>Melania subglobosus</i> Say.	
276	tæniatus Conrad.	Alabama.
276	trilineatus Say.	Falls of Ohio.
	var. <i>A. costatus</i> Anthony.	Ohio river.

Page.	Name.	Locality.
277	<i>Io fusiformis</i> Lea.	Tennessee.
277	<i>spinosa</i> Lea.	Tennessee.
Family Peristomata.		
278	<i>Valvata pupoidea</i> Gould.	Boston.
278	<i>sinoera</i> Say.	Lake Champlain.
278	<i>tricarinata</i> Say.	New York.
	var. <i>V. unicarinata</i> De Kay.	Boston.
	<i>carinata</i> Sowerby.	
278	<i>Amnicola attenuata</i> Hald.	Virginia.
278	<i>Cincinnatiensis</i> Lea.	Ohio.
	<i>Cyclostoma Cincinnatiense</i> .	
278	<i>elongata</i> .	Virginia.
278	<i>grana</i> Say.	Ohio.
	<i>Paludina grana</i> Say.	
278	<i>isogona</i> Say.	Ohio.
	<i>Melania isogona</i> Say.	
278	<i>lapidaria</i> Say.	Ohio.
	<i>Cyclostoma lapidaria</i> Say.	
278	<i>limosa</i> Say.	Ohio.
	<i>Paludina limosa</i> Say.	
278	<i>lustrica</i> Say.	Vermont.
	<i>Paludina lustrica</i> Say.	
278	<i>pallida</i> Hald.	Vermont.
278	<i>porata</i> Say.	Ohio.
	<i>Paludina porata</i> Say.	
278	<i>Sayana</i> Anthony.	Ohio.
279	<i>Paludina altalis</i> Rav.	Santee canal.
279	<i>angulata</i> Lea.	Alabama.
279	<i>Coosaensis</i> Lea.	Alabama.
279	<i>cyclostomatiformis</i> Lea.	Alabama.
279	<i>decisa</i> Say.	New York, Ohio.
279	<i>genicula</i> Conrad.	Georgia.
280	<i>Georgiana</i> Lea.	Georgia.
280	<i>heterostropha</i> Anthony.	Ohio.
280	<i>integra</i> Say.	Ohio.
280	<i>intertexta</i> Say.	Louisiana.
280	<i>magnifica</i> Conrad.	Georgia.
	var. <i>P. bimonilifera</i> Lea.	Alabama.
280	<i>Nuttalliana</i> Lea.	Wahlamat.
280	<i>ponderosa</i> Say.	Ohio, Alabama.
280	<i>subcarinata</i> Say.	Ohio.
281	<i>subglobosa</i> Say.	N. W. Territory.
281	<i>subpurpurea</i> Say.	Illinois.

Page.	Name.	Locality.
282	Ampullaria depressa Say. var. <i>A. Hopetonensis</i> Lea. paludosa Say.	East Florida. Georgia.
283	scalaris D'Orb.	Mexico.
283	urceus Müll. <i>Nerita urceus</i> Müll. var. <i>Bulimus urceus</i> Brug. <i>A. rugosa</i> Lam.	Mexico. Mississippi.

Family **Neritacea.**

288	Neritina reclivata Say. <i>N. macrostoma</i> D'Orb. var. <i>N. Floridana</i> ? Shuttl.	Mexico. Vera Cruz.
289	Nerita Deshayssi Recluz.	California.
291	Natica canaliculata Gould.	B'ks of Newfoundland.
291	clausa Sowerby. <i>N. borealis</i> Beck. var. <i>N. consolidata</i> Couth.	Melville Island. New York.
291	cornea Müll. <i>N. fragilis</i> Sab.	Greenland.
292	duplicata Say.	New York.
292	flava Gould. (<i>Globulus</i>) Sowerby.	B'ks of Newfoundland.
292	Grœnlandica Beck.	Greenland.
292	heros Say.	New York.
292	immaculata Totten.	Rhode Island.
292	Lewisii Gould.	Puget Sound.
293	otis Sowerby.	Mazatlan.
293	pusilla Say. <i>N. alba</i> Loven. var. <i>N. Grœnlandica</i> Beck.	New York.
293	triseriata Say.	New York.

Family **Velutiniidæ.**

294	Velutina lævigata Linn. <i>Helix lævigata</i> Linn. var. <i>V. capuloidea</i> Blain. rupicola Conrad. <i>Galericulum lævigatum</i> Brown. <i>Velutina plicaria</i> ?	Boston bay. Massachusetts
294	zonata Gould.	Greenland. Boston bay.

Family **Plicacea.**

296	Tornatella puncto-striata Adams.	New York.
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Family **Turbinacea.**

Page.	Name.	Locality.
299	Pyramis striatula Couth.	Massachusetts.
299	Cingula aculeus Gould.	Boston.
299	<i>latior</i> Mighels.	Casco bay.
299	<i>minuta</i> Totten.	New Bedford.
	<i>Turbo minutus</i> Totten.	
299	Odostomia exigua Couth.	Boston.
	<i>Jaminia exigua</i> Couth.	
	var. <i>Rissoa rupestris</i> Forbes.	
	<i>Turitella bisuturalis?</i> Say.	
299	<i>fusca</i> Adams.	New Bedford.
	<i>Pyramis fusca</i> Adams.	
	var. <i>Jaminia fusca</i> Adams.	
299	<i>seminuda</i> Adams.	Cape Cod.
	<i>Jaminia seminuda</i> Adams.	
299	<i>trifida</i> Totten.	Rhode Island.
	<i>Acteon trifidus</i> Totten.	
300	Scalaria Grœnlandica Chemn.	B'ks of Newfoundland.
	<i>Turbo clathrus Grœnlandicus.</i>	
	var. <i>S. planicosta</i> Kiener.	Massachusetts bay.
	<i>subulata</i> Couth.	Greenland.
300	<i>hexagona</i> Sowerby.	Acapulco.
300	<i>lineata</i> Say.	New York.
300	<i>multistriata</i> Say.	South Carolina.
	<i>S. pulchella</i> Bivon.	
300	Nov.-Angliæ Couth.	Cape Ann.
302	Solarium placentale Hinds.	California.
305	Trochus moestus Jonas.	California.
307	<i>undosus</i> Wood.	California.
	var. <i>T. Californianus</i> Nutt.	
307	<i>unguis</i> Wood.	Acapulco.
	<i>T. digitatus</i> Desh.	
307	Margarita arctica Leach.	Plymouth, Mass.
	<i>Turbo inflatus</i> Totten.	
307	<i>argentata</i> Gould.	Cape Ann.
307	<i>cinerea</i> Couth.	Massachusetts bay.
	<i>Turbo cinereus</i> Couth.	
307	<i>expansa</i> Sowerby.	Arctic Sea.
307	<i>glabrata.</i>	Greenland.
307	<i>glacialis</i> Moll.	Greenland.
307	<i>Grœnlandica</i> Beck.	Greenland.
307	<i>obscura</i> Couth.	Massachusetts bay.
	<i>Turbo obscurus</i> Couth.	
307	<i>septentrionalis.</i>	Greenland.

Page.	Name.	Locality.
307	Margarita undulata Sowerby. <i>Turbo incarnatus</i> Couth.	Massachusetts bay.
308	Turbo Fokkesii Jonas. <i>Murmorostoma planospira</i> Jay. var. <i>Turbo fluctuatus</i> Reeve.	Mazatlan. Columbia.
310	Littorina irrorata Say. <i>Phasianella sulcata</i> Lam.	New York, Florida.
311	palliat Say. <i>Turbo palliatus</i> Say.	New York.
311	Sitchana Phil.	Isl. Sitcha.
311	tenebrosa Mont. <i>Turbo vestitus</i> Say.	New York.
311	Lacuna divaricata .	Greenland.
311	fusca Binney. var. <i>Lacuna vineta</i> ? Mont.	Boston.
311	Neritoidea Gould.	Boston bay.
312	vineta Mont. (var.) <i>L. pertusa</i> Conrad. var. <i>Turbo quadrfasciatus</i> Flem.	Plymouth, Mass.
313	Turritella erosa Couth.	Boston bay.
313	interrupta Totten.	Rhode Island.
313	polaris Beck.	Greenland.
313	reticulata Mighels.	Gulf of St. Lawrence.

Family **Canalifera.**

314	Cerithium Emersonii Adams.	New Bedford.
314	ferrugineum Say.	South Carolina.
314	Greenii Adams.	Cape Cod.
315	muscarum Say. <i>C. stercus-muscarum</i> .	Florida.
315	nigro-cinctum Adams.	New Bedford.
316	Sayi Menke. <i>C. reticulatum</i> Totten.	New Bedford.
316	terebrale Adams.	New Bedford.
318	Turbinella scolymus Gmelin (var.) (<i>Latirus</i>) Montf.	Gulf of Mexico.
319	Cancellaria Couthouyi Jay. <i>C. buccinoides</i> Couth.	Massachusetts bay.
320	urceolata Hinds.	California.
320	viridula Fab. <i>Defrancia viridula</i> .	Greenland.
320	Fasciolaria ligata Mighels.	Gulf of St. Lawrence.
321	tulipa Linn. (var.)	Gulf of Mexico.

Page.	Name.	Locality.
321	Fusus carinatus Pennant.	Greenland.
	<i>Murex carinatus</i> Pennant.	
	var. <i>Murex fornicatus</i> Dillwyn.	North Sea.
321	corneus Linn. (var.)	B'ks of Newfoundland.
	<i>Murex corneus</i> Linn.	
321	corona Gmelin.	Gulf of Mexico.
	<i>Murex corona</i> Gmelin.	
321	decemcostatus Say.	Massachusetts bay.
322	Dupetit-Thouarsii Kiener.	California.
322	harpularius Couth.	Massachusetts bay.
322	muricatus Mont.	Massachusetts bay.
	<i>Murex muricatus</i> Mont.	
322	scalariformis Gould.	B'ks of Newfoundland.
323	tornatus Gould.	B'ks of Newfoundland.
323	turriculus Mont.	B'ks of Newfoundland.
	<i>Murex turriculus</i> Mont.	
	var. <i>Pleurotoma turricula</i> Reeve.	
	<i>Murex angulatus</i> Donovan.	
323	ventricosus Gray.	B'ks of Newfoundland.
	<i>F. ocelliferus</i> Encycl. M.	
323	Trophon clathratum Fab.	Greenland.
	<i>Tritonium clathratum</i> Fab.	
323	craticulatum Fab.	B'ks of Newfoundland.
	<i>Tritonium craticulatum</i> Fab.	
	var. <i>Trophon Fabricii</i> Beck.	
323	Defrancia cinerea Möll.	Greenland.
324	exarata Möll.	Greenland.
324	livida Möll.	Greenland.
324	reticulata Möll.	Greenland.
324	Vahlhi Beck.	Greenland.
324	viridula Fab.	Greenland.
	<i>Tritonium viridula</i> Fab.	
324	Daphnella decussata Couth.	Maine.
326	Pleurotoma funiculata Valenc.	Gulf of California.
327	plicosa Adams.	New Bedford.
	<i>P. plicata</i> Adams.	
328	violacea Adams.	Maine.
328	Pyrula aruana Linn.	New York.
	<i>P. carica</i> Lam.	
	var. <i>Murex aruanus</i> Linn.	South Carolina.
328	canaliculata Linn.	New York.
	<i>Murex canaliculatus</i> Linn.	
	var. <i>P. spirata</i> Kien.	Rye, Vineyard.
329	perversa Linn.	Key West.
	<i>Murex perversus</i> Linn.	

Page.	Name.	Locality.
329	Pyrula pyrum Dillwyn. <i>P. spirata</i> Lam. var. <i>Fulgur pyruloides</i> Say.	Florida.
330	Murex bicolor Val. <i>M. erythrostomus</i> Swains. var. <i>M. regius</i> Schub. et Wagn.	Gulf of California. Mazatlan.
330	brassica Lam. <i>M. ducalis</i> Brod.	Gulf Calif'a, Mazatlan.
330	chrysostomus Gray.	Gulf of Mexico.
331	elongatus Lam.	Gulf of Mexico.
331	foliatus Gmelin.	California.
331	imperialis Swain. (var.)	California.
332	Nuttallii Conrad. <i>Cerostoma Nuttallii</i> Conrad.	California.
333	spinicostata Val.	Gulf of Mexico.
334	trilineatus Reeve.	Gulf of Mexico.
334	Ficula decussata Wood.	San Blas.
335	papyratia Say. <i>Pyrula papyratia</i> Say.	Florida.
335	Ranella caudata Say.	New York.
336	triquetra Reeve.	California.

Family **Alata.**

339	Aporrhais occidentalis Beck. <i>A. occidentalis</i> Sowerby.	Grand Bank.
342	Strombus galeatus Wood. (var.)	California.
342	gracillor Wood.	California.

Family **Purpurifera.**

346	Riccinula dumosa Conrad. <i>R. porphyrostoma</i> Reeve.	California.
347	Columbella avara Say.	New York.
348	carinata Hinds.	California.
348	hæmastoma Sowerby (var.)	California.
349	lunata Say. <i>Nassa lunata</i> Say.	Massachusetts.
351	Purpura aperta Blain. (var.) <i>P. macrostoma</i> Conrad.	California.
352	emarginata Desh. <i>P. Conradi</i> Nutt.	California.
352	Floridana Conrad.	Tampa bay.
352	harpa Conrad.	California.
353	lapillus Linn. (var.) <i>Buccinum filiosum</i> Gmelin. var. <i>P. imbricata</i> Lam.	Massachusetts. Maine.

Page.	Name.	Locality.
354	Monoceros brevidens Conrad.	California.
355	lugubre Sowerby.	California.
	<i>M. cymatum</i> Sowerby.	
355	punctatum Gray.	Santa Barbara.
	<i>Purpura lapilloides</i> Conrad.	
355	unicarinatum Sowb. (var.)	Santa Barbara.
	<i>Purpura engonata</i> Conrad.	
356	Harpa crenata Swain. (var.)	Mexico.
	<i>H. testudinalis</i> .	
	var. <i>H. Ricoliana</i> Less.	
	<i>Mexicana</i> .	
358	Trichotropis borealis Sowerby.	Newfoundland.
	<i>T. costellatus</i> Couth.	
358	Bulla armata Gray.	Newfoundland.
	<i>Buccinum moniliferum</i> Kien.	
359	Buccinum calcareum .	Newfoundland.
359	ciliatum Fabr.	Newfoundland.
	<i>Tritonium ciliatum</i> Fabr.	
	var. <i>B. ventricosum</i> Kien.	
360	cyaneum Beck.	Greenland.
360	Donevani Gray.	Newfoundland.
361	Möllerii Reeve.	Greenland.
362	plicosum Menke.	New York.
	<i>Fusus cinereus</i> Say.	
362	priestis Desh.	California.
	<i>B. serratum</i> Kien.	
	var. <i>B. Northii</i> .	
362	pusio Linn.	California.
	<i>B. plumatum</i> Gmelin.	
	var. <i>Fusus pusio</i> Encycl.	
	<i>articulatus</i> Lam.	
363	undatum Linn. (var.)	Grand Banks.
	<i>Tritonium undatum</i> Müll.	
	<i>B. striatum</i> Pennant.	
	var. <i>B. solutum</i> Dillwyn.	Massachusetts.
	<i>Cochlea marina</i> Belon.	Cape Cod.
364	Nassa obsoleta Say.	New York.
	<i>Buccinum oliviforme</i> Kien.	
365	trivittata Say.	New York.
365	vibex Say.	South Carolina.
369	Oliya litterata Lam.	Florida.
369	mutica Say.	South Carolina.
370	polpasta Duclos.	California.
373	Terebra rudis Gray.	South Carolina.
	<i>T. Petittii</i> Kiener.	

Page.	Name.	Locality.
373	Terebra specillata <i>Hinds.</i>	San Blas.
373	variegata <i>Gray.</i>	Gulf of California.
	T. Africana <i>Gray.</i>	

Family **Columellata.**

374	Marginella carnea <i>Storer.</i>	Key West.
375	Storeria <i>Couth.</i>	Gulf of Mexico.
378	Mitra Grœnlandica <i>Gray.</i>	Greenland.
383	Voluta Junonia <i>Chemn.</i>	Gulf of Mexico.

Family **Convoluta.**

387	Cypræa albuginosa <i>Mawe.</i>	California.
387	Arabica <i>Linn. (var.)</i>	California.
	<i>C. eglantina</i> <i>Duclos, &c. &c.</i>	
387	Californica <i>Gray.</i>	California.
	<i>Trivia Californica</i> <i>Gray.</i>	
391	onyx <i>Linn.</i>	San Diego, California.
	<i>C. adusta</i> <i>Lam.</i>	
	<i>nymphæ</i> <i>Duclos.</i>	
	<i>pulla</i> <i>Gmelin.</i>	
392	Solandri <i>Gray.</i>	California.
394	Ovulum avena <i>Sowerby.</i>	Mexico.
	<i>(Cypræada.)</i>	
395	uniplicatum <i>Sowerby.</i>	South Carolina.
400	Conus interruptus <i>Brod.</i>	Mazatlan.
404	purpurascens <i>Brod.</i>	San Blas.
405	spurius <i>Gmel. (var.)</i>	Mexico.
	<i>C. leoninus</i> <i>Brug.</i>	
	<i>Proteus</i> <i>Brug.</i>	
	<i>inscriptus</i> <i>Brug.</i>	
	<i>bicolor</i> <i>Sowerby.</i>	

(Errata.) *Natica Grœnlandica* Beck = **N. pusilla** *Say.*

SUPPLEMENT.

465	Cyclas aurea <i>Prime.</i>	Ohio.
465	cœrula <i>Prime.</i>	Massachusetts.
465	fabalis <i>Prime.</i>	Lake Superior.
465	flava <i>Prime.</i>	Lake Superior.
465	Jayensis <i>Prime.</i>	Lake Superior.
465	pellucida <i>Prime.</i>	Vermont.
	<i>C. calyculata</i> <i>Adams.</i>	
466	securis <i>Prime.</i>	Cambridge.
466	solidula <i>Prime.</i>	Ohio.
466	transversa <i>Say.</i>	Ohio.
466	truncata <i>Lindsley.</i>	Connecticut.

Page.	Name.	Locality.
466	Pisidium abditum <i>Hald.</i>	Pennsylvania.
466	<i>altile</i> <i>Anthony.</i>	Ohio.
466	<i>compressum</i> <i>Prime.</i>	Massachusetts.
463	<i>variabile</i> <i>Prime.</i>	Massachusetts.
466	<i>ventricosum</i> <i>Prime.</i>	Massachusetts.
436	Venus astartoides <i>Beck.</i>	Greenland.
466	<i>Manhattensis</i> <i>Prime.</i>	New York.
468	Dentalium striolatum <i>Stimpson.</i>	Maine.
469	Bulla amygdalus <i>List.</i>	Gulf of Mexico.
	<i>B. striata</i> <i>Brug.</i>	
439	<i>canaliculata</i> <i>Say.</i>	New Bedford.
	Subgenus <i>Tornatina.</i>	
	var. <i>Bullina canaliculata</i> <i>Say.</i>	
	<i>Volvaria canaliculata</i> <i>Say.</i>	
469	<i>corticata</i> <i>Möll.</i>	Greenland.
	Subgenus <i>Cylichna.</i>	
469	<i>debilis</i> <i>Gould.</i>	Boston bay.
	Subgenus <i>Aplustrum.</i>	
470	<i>formosa</i> <i>Stimpson.</i>	Massachusetts.
	<i>Philine formosa</i> <i>Stimpson.</i>	
470	<i>Gouldii</i> <i>Couth.</i>	Boston bay.
	Subgenus <i>Aplustrum.</i>	
470	<i>insculpta</i> <i>Totten.</i>	Rye, New York.
	Subgenus <i>Haminea.</i>	
	<i>B. solitaria</i> <i>Say.</i>	Maryland.
	var. <i>B. Reinhardi</i> <i>Holb.</i>	North America.
470	<i>lignaria</i> <i>Linn. (var.)</i>	B'ks of Newfoundland.
	Subgenus <i>Scaphander.</i>	
470	<i>nebulosa</i> <i>Gould (var.)</i>	Gulf of California.
470	<i>obstricta</i> <i>Gould.</i>	Boston bay.
	Subgenus <i>Tornatina.</i>	
470	<i>oryza</i> <i>Totten.</i>	Massachusetts.
	Subgenus <i>Haminea.</i>	
470	<i>pertenus</i> <i>Mighels.</i>	Cape Cod.
471	<i>triticea</i> <i>Couth.</i>	Boston bay.
	Subgenus <i>Cylichna.</i>	
471	<i>virescens</i> <i>Sowerby.</i>	California.
	Subgenus <i>Haminea.</i>	
471	Helix exigua <i>Stimpson.</i>	Boston.
473	Succinea obliqua <i>Say.</i>	New York.
473	<i>Texasiana</i> <i>Pfr.</i>	Galveston.
474	Planorbis multivolvis <i>Case.</i>	Michigan.
474	Physa vinosa <i>Gould.</i>	Lake Superior.
474	Melania brevi-spira <i>Anthony.</i>	Ohio.
474	<i>monilifera</i> <i>Anthony.</i>	Georgia.
475	Odostomia insculpta <i>De Kay.</i>	New York bay.

Page.	Name.	Locality.
475	<i>Turritella acicula</i> Stimpson.	Cape Cod.
476	<i>Pleurotoma cerinum</i> Kurtz, Stimpson.	New Bedford.
476	<i>Murex Belcheri</i> Hinds.	San Diego.
476	<i>monoceros</i> Sowb. = <i>M. Nuttallii</i> Conr.	
478	<i>Spirialis Gouldii</i> Stimpson.	Coast of U. States.

[In the earlier editions of the Catalogue occur the following names. Considerable discrepancy also exists regarding synonymy, owing principally to the improvements in classification. These earlier editions, not being perfectly represented in the Bibliography, should be consulted by the student.—W. G. B.]

(First Edition, vide p. 46.)

Page.	Name.	Locality.
8	<i>Mya hyalina</i> .	Montauk point, N. Y.
8	<i>Erycina cardioides</i> .	Florida.
9	<i>Pandora rostrata</i> .	New Jersey.
10	<i>Lucina divaricata</i> .	Rhode Island.
11	<i>Cyclas cornea</i> .	New Jersey.
11	<i>Cytherea Florida</i> .	Florida.
12	<i>concentrica</i> .	South Carolina.
15	<i>Unio formosus</i> .	Ohio.
16	<i>soleniformis</i> .	Ohio.
16	<i>ebenus</i> .	Alabama.
16	<i>asper</i> .	Louisiana.
16	<i>lens</i> .	Ohio.
16	<i>anodontoides</i> .	Ohio.
16	<i>pustulosus</i> .	Ohio.
16	<i>pustulatus</i> .	Illinois.
16	<i>oriens</i> .	Ohio.
16	<i>brevidens</i> .	Ohio.
16	<i>asperrimus</i> .	Ohio.
16	<i>multiplicatus</i> .	Ohio.
16	<i>rubiginosus</i> .	Ohio.
16	<i>sulcatus</i> .	Ohio.
16	<i>planulatus</i> .	Ohio.
16	<i>circulus</i> .	Ohio.
16	<i>multiradiatus</i> .	Ohio.
16	<i>occidens</i> .	Illinois.
16	<i>securis</i> .	Ohio.
16	<i>iris</i> .	Ohio.
16	<i>zigzag</i> .	Ohio.
16	<i>patulus</i> .	Ohio.
16	<i>calceolus</i> .	Ohio.

Page.	Name.	Locality.
16	Unio donaciformis.	Ohio.
16	<i>ellipsis.</i>	Ohio.
16	<i>irroratus.</i>	Ohio.
16	<i>mytiloides.</i>	Ohio.
	<i>U. undatus</i> Barnes.	
16	<i>cuneiformis.</i>	Ohio.
17	<i>modioliformis.</i>	Ohio.
17	<i>perdix.</i>	Tennessee.
17	<i>varicosus.</i>	Ohio.
17	<i>tenerus</i> (Rav. ed. 2.)	Cooper river, S. C.
17	<i>ridibundus.</i>	Tennessee.
17	<i>torsus.</i>	Ohio.
17	<i>scalenius.</i>	Ohio.
17	<i>Æsopus.</i>	Ohio.
17	<i>cornutus.</i>	Ohio.
17	<i>cuneatus.</i>	Ohio.
17	<i>ventricosus.</i>	Illinois.
17	<i>triangularis.</i>	Ohio.
17	<i>foliatus.</i>	Ohio.
18	<i>undulatus.</i>	Ohio.
18	Symphynota inflata.	Tennessee.
18	<i>lævissima.</i>	Ohio.
18	<i>alata.</i>	Ohio.
18	<i>complanata.</i>	Ohio.
18	<i>compressa.</i>	Ohio.
18	<i>gracilis.</i>	Ohio.
18	<i>tenuissimus.</i>	Ohio.
18	Alasmodonta confragosa.	Illinois.
18	<i>rugosa.</i>	Ohio.
18	<i>complanata.</i>	Kentucky.
18	<i>marginata.</i>	Ohio.
18	<i>undulata.</i>	New Jersey.
18	Anodonta fragilis.	Ohio.
19	Modiola demissus.	Rhode Island.
20	Pinna seminuda.	South Carolina.
21	Hinnites Poulsoni.	California.
22	Pecten gigantea.	California.
26	Helix aspersa.	Charleston, S. C.
26	<i>Richardi.</i>	Tennessee.
28	<i>fraterna.</i>	Pennsylvania.
29	Carocolla spinosa.	Alabama.
30	Bulimus undatus.	Florida.
31	<i>mutilatus.</i>	South Carolina.
31	Achatina vexillum.	Florida.
31	<i>virginea.</i>	Florida.

Page.	Name.	Locality.
32	<i>Achatina glans</i> .	South Carolina.
33	<i>Physa gyrina</i> .	South Carolina.
33	<i>Melania carinata</i> .	Yadkin river, N. C.
34	<i>Ampullaria Hopetonensis</i> .	Georgia.
38	<i>Cerithium dislocatum</i> .	South Carolina.
39	<i>Fasciolaria distans</i> .	South Carolina.
40	<i>Fusus cinereus</i> .	South Carolina.
46	<i>Buccinum serratum</i> .	California.
53	<i>Oliva Sayana</i> .	South Carolina.

(Second Edition, vide p. 52.)

8	<i>Solen constrictus</i> Lam.	Rhode Island.
8	<i>rostratus</i> Lam.	Maine.
9	<i>Thracia corbuloides</i> Desh.	Rhode Island.
10	<i>Gnathodon truncatus</i> .	Florida.
12	<i>Tellina versicolor</i> Cozzens.	New York.
16	<i>Cardium fasciatum</i> Mont.	South Carolina.
19	<i>Unio arcæformis</i> Lea.	Tennessee.
20	<i>dehiscens</i> Say.	Ohio.
	<i>U. oriens</i> Lea.	
20	<i>elegans</i> Lea.	Ohio.
20	<i>gibbosus</i> Barnes.	
	<i>U. nasuta</i> Lam.	
20	<i>fabalis</i> Lea.	Ohio.
	<i>U. lapillus</i> Say.	
21	<i>heros</i> Say = <i>U. multiplicatus</i> Lea.	
21	<i>perplexus</i> Lea.	Ohio.
21	<i>phaseolus</i> Hildreth.	Ohio.
	<i>U. planulatus</i> Lea.	
21	<i>pyramidatus</i> Lea.	Ohio.
22	<i>sulcatus</i> Lea.	Tennessee.
	<i>U. ridibundus</i> Say.	
22	<i>rugosus</i> Barnes.	Ohio.
	<i>U. asperrimus</i> Lea.	
22	<i>orbiculatus</i> Hildreth.	Tennessee.
	<i>U. crassus</i> Conrad.	
	<i>abruptus</i> Say.	
22	<i>erassidens</i> (var. a) Lam. = <i>U. trapezoides</i> Lea.	
22	<i>trigonus</i> Lea.	Ohio.
22	<i>formosus</i> Lea = <i>U. triangularis</i> Barnes.	
22	<i>undatus</i> Barnes = <i>U. obliquus</i> Lam.	
22	<i>undulatus</i> Barnes.	Ohio.
23	<i>elongata</i> Lam. = <i>Alasmodonta margaritifera</i> Say.	
23	<i>Alasmodonta edentula</i> Say.	Ohio.
23	<i>Anodonta areolata</i> Sw.	Western rivers.

Page.	Name.	Locality.
23	<i>Anodonta corpulenta</i> Cooper.	Upper Miss. river.
23	<i>plana</i> Lea.	Illinois.
26	<i>Pecten concentricus</i> Say.	New York.
27	<i>Ostrea Canadensis</i> Lam.	New York.
29	<i>Clio borealis</i> Linn.	New York.
30	<i>Patella alveus</i> Conrad.	Plymouth, Mass.
31	<i>Crepidula unguiformis</i> Lam.	New York.
33	<i>Helix Bonplandii</i> Lam.	Tennessee.
34	<i>diodonta</i> Zgl.	Ohio.
34	<i>exoleta</i> Say.	Ohio.
34	<i>glaphyra</i> Say.	Ohio.
36	<i>minuta</i> Say.	Ohio.
36	<i>personata</i> Lam.	Ohio.
38	<i>Helicina picta</i> .	Mexico.
38	<i>Pupa exigua</i> Say.	Ohio.
39	<i>Clausilia exesa</i> Spix.	Mexico.
41	<i>Bulimus multifasciatus</i> Lam.	Mexico.
41	<i>princeps</i> Brod.	Mexico.
43	<i>Melampus bidentalis</i> Say.	New York.
43	<i>borealis</i> Conrad.	Rhode Island.
43	<i>Cyclostoma lapidaria</i> Say.	Ohio.
43	<i>marginata</i> Say.	Ohio.
44	<i>Physa elliptica</i> Lea.	Ohio.
45	<i>Lymnæa stagnalis</i> Lam.	Ohio.
45	<i>Melania annulata</i> Conrad.	Alabama.
45	<i>isogonia</i> Say.	Ohio.
45	<i>lineata</i> Say.	Ohio.
45	<i>mutilata</i> Say.	South Carolina.
45	<i>obovata</i> Say.	Ohio.
45	<i>olivata</i> Conrad.	Alabama.
46	<i>Paludina dissimilis</i> Say.	Ohio.
46	<i>grana</i> Say.	Ohio.
46	<i>limosa</i> Say.	Ohio.
47	<i>Neritina latissima</i> Brod.	Mexico.
49	<i>Actæon trifidus</i> Totten.	Rhode Island.
51	<i>Turbo inflatus</i> Totten.	Plymouth, Mass.
52	<i>minutus</i> Totten.	Cape Cod.
53	<i>Cerithium reticulatum</i> Totten.	Rhode Island.
74	<i>Loligo Pealeii</i> Lesueur.	New York.
75	<i>Unio camelus</i> Lea.	Ohio.

(Third Edition, vide p. 64.)

12	<i>Saxicava rhomboides</i> Desh.	Massachusetts bay.
14	<i>Tellina rosea</i> Lam.	California.
15	<i>Lucina bella</i> Conrad.	Upper California.

Page.	Name.	Locality.
17	<i>Cytherea callosa</i> Conrad.	Upper California.
19	<i>Venus staminea</i> Conrad.	Upper California.
23	<i>Unio camelus</i> Lea.	Ohio.
23	<i>Cumberlandicus</i> Lea.	Tennessee.
24	<i>cuprinus</i> Lea.	Mexico.
24	<i>lævissimus</i> Lea.	Ohio.
24	<i>lachrymosus</i> Lea.	Ohio.
25	<i>orbiculatus</i> Hildreth.	Indiana.
25	<i>pileus</i> Lea.	Ohio.
26	<i>Schoolcraftensis</i> Lea.	Green bay.
26	<i>subovatus</i> Lea.	Ohio.
26	<i>tenuissimus</i> Lea.	Ohio.
28	<i>Anodonta pavonia</i> Lea.	Ohio.
30	<i>Modiola papuana</i> Lam.	New York.
30	<i>Mytilus borealis</i> Lam.	New York.
31	<i>Perna Californica</i> Conrad.	California.
33	<i>Pecten tumidus</i> Brod.	Upper California.
34	<i>Anomia patellaris</i> Lam.	New York.
36	<i>Eolis gymnota</i> Couth.	Charles river.
36	<i>salmonacea</i> Couth.	Massachusetts.
37	<i>Tritonia Reynoldsii</i> Couth.	Charles river.
37	<i>Chiton Californicus</i> Nutt.	Upper California.
37	<i>incarnatus</i> Nutt.	Upper California.
37	<i>pectinatus</i> Gould.	New York.
37	<i>textilis</i> Conrad.	Upper California.
37	<i>Patella amœna</i> Say.	New York.
38	<i>plicata</i> Nutt.	Upper California.
38	<i>scabra</i> Nutt.	Upper California.
40	<i>Fissurella ornata</i> Nutt.	Upper California.
40	<i>pica</i> Nutt.	Upper California.
41	<i>Crepidula rugosa</i> Nutt.	Upper California.
41	<i>squamosa</i> Brod.	Upper California.
41	<i>Bulla Californica</i> Nutt.	Upper California.
46	<i>Helix denotata</i> Fer.	Ohio.
	<i>H. polliata</i> Say.	
47	<i>Leaii</i> Ward.	Ohio.
47	<i>linguifera</i> Fer.	Ohio.
	<i>H. appressa</i> Say.	
49	<i>planorbula</i> Lam.	Florida.
	<i>H. septemvolva</i> Say.	
49	<i>scabra</i> Lam.	New York.
	<i>H. alternata</i> Say.	
50	<i>subglobosa</i> Binney.	Massachusetts.
51	<i>Wardiana</i> Lea.	Ohio.
51	<i>zaleta</i> Say.	Ohio.

Page.	Name.	Locality.
58	<i>Achatina striata</i> Desh.	Florida.
59	<i>Auricula cornea</i> Desh.	New York.
61	<i>Physa aurea</i> Lea.	Virginia.
62	<i>Melania subglobosa</i> Say.	Ohio.
62	<i>trilineata</i> Say.	Ohio.
63	<i>Anculotus dentatus</i> Conrad.	Potomac.
64	<i>Paludina porata</i> Say.	Ohio.
68	<i>Natica variolaris</i> .	California.
68	<i>Galericulus lævigatus</i> Brown.	Massachusetts bay.
68	<i>ovatum</i> Brown.	Massachusetts bay.
69	<i>Pyramidella terebellum</i> Lam.	South Carolina.
69	<i>Scalaria communis</i> Lam.	South Carolina, &c.
70	<i>subulata</i> Couth.	Massachusetts bay.
70	<i>Trochus Californicus</i> Nutt.	Upper California.
70	<i>castaneus</i> Nutt.	Upper California.
72	<i>Monodonta fusca</i> Nutt.	Upper California.
72	<i>marginata</i> Nutt.	Upper California.
72	<i>Turbo aculeus</i> Gould.	Massachusetts bay.
72	<i>cinereus</i> Couth.	Massachusetts bay.
72	<i>incarnatus</i> Couth.	Massachusetts bay.
72	<i>inflatus</i> Totten.	Plymouth.
72	<i>irroratus</i> Say.	New York.
73	<i>minutus</i> Totten.	Cape Cod.
73	<i>obligatus</i> Say.	Massachusetts.
73	<i>obscurus</i> Couth.	Massachusetts.
73	<i>palliatu</i> s Say.	Massachusetts.
73	<i>pallida</i> Nutt.	Upper California.
73	<i>vestita</i> Say.	Massachusetts.
73	<i>Marmarostoma planospira</i> Nutt.	Upper California.
73	<i>Littorina iostoma</i> Nutt.	Upper California.
73	<i>maculata</i> Nutt.	Upper California.
73	<i>planaxis</i> Nutt.	Upper California.
74	<i>Phasianella inflexa</i> Couth.	Massachusetts bay.
77	<i>Cancellaria Couthouyi</i> Jay.	Massachusetts bay.
	<i>C. buccinoides</i> Couth.	
79	<i>Melongena occidentalis</i> Nutt.	California.
80	<i>Murex sexcostatus</i> Brug.	California.
84	<i>Purpura bezoar</i> Blainv.	California.
84	<i>chocolatum</i> Ducloz.	California.
85	<i>macrostoma</i> Conrad.	Sta. Barbara.
86	<i>Monoceros engonata</i> Conrad.	California.
	<i>Purpura spirata</i> Blainv.	
86	<i>lapilloides</i> Nutt.	California.
86	<i>plumbeum</i> Kiener.	California.
86	<i>punctulatum</i> Gray.	California.

Page.	Name.	Locality.
86	<i>Trichotropis costellatus</i> Couth.	Massachusetts bay.
87	<i>Buccinum Boysii</i> Nutt.	Upper California.
88	<i>Poulsoni</i> Nutt.	Upper California.
88	<i>serratum</i> Dufr.	California.
88	<i>trivittatum</i> Say.	New York.
89	<i>Terebra Petitii</i> Kiener.	South Carolina.
96	<i>Cypræa pustulata</i> Lam.	Mexico.
97	<i>Oliva biplicata</i> Sowerby.	California.
98	<i>undatella</i> .	California.

(Appendix. See, also, p. 64.)

Pa.	Pl.	Fig.	Name.	Locality.
112	i	8, 9	<i>Paludina scalaris</i> Jay.	Florida.
112	i	10, 11	<i>Lymnæa gracilis</i> Jay.	Essex Co., N. Y.
113	i	17, 18	<i>Trichotropis costellatus</i> Couth.	Mass. bay.
114	i	19, 20	<i>Nucula Portlandica</i> Hitch., fossil.	Maine.
116	iii	7	<i>Ampullaria scalaris</i> D'Orb. <i>A. angulata</i> Jay.	Mexico.
118	v	1, 2	<i>Unio spinosus</i> Lea.	Georgia.
122	vii	11	<i>Melania læta</i> Jay.	Alabama.

Bland.—Facts and Principles relating to the Origin and Geographical Distribution of Mollusca: by THOS. BLAND, F. G. S. London. (From Am. Journal Science and Art, 2d series, vol. xiv, No. 42, pp. 389-404. November, 1852.)

Lapham.—Catalogue of the Mollusca of Wisconsin: by I. A. LAPHAM. (From Trans. Wisc. State Agricultural Soc., vol. ii. Madison, Wisc., 1852.) [Without descriptions.]

ORDER GASTEROPODA.

Page.		Page.	
367	<i>Ancylus rivularis</i> Say.	367	<i>Helix hirsuta</i> Say.
367	<i>diaphanus</i> Hald.	367	<i>labyrinthica</i> Say.
367	<i>Vitrina pellucida</i> Drop.	367	<i>lineata</i> Say.
367	<i>Helix albolabris</i> Say.	367	<i>ligera</i> Say.
367	<i>alternata</i> Say.	367	<i>monodon</i> Rackett.
367	<i>arborea</i> Say.	367	<i>multilineata</i> Say.
367	<i>chersina</i> Say.	367	<i>perspectiva</i> Say.
367	<i>concava</i> Say.	367	<i>profunda</i> Say.
367	<i>fraterna</i> Say.	367	<i>porcina</i> Say.

Page.		Page.	
367	Pupa armifera Say.	368	Limnea columella Say.
367	corticaria Say.		<i>L. macrostoma</i> Say.
367	ovata Say.	368	emarginata Say.
	<i>P. modesta.</i>	368	fragilis Linn.
367	Succinea obliqua Say.		<i>L. elodes</i> Say.
367	avara Say.	368	gracilis Say.
368	Bulimus lubricus Brug.	368	jugularis Say.
368	harpa Pfeiffer.		<i>L. stagnalis</i> Kirtland.
	<i>Helix harpa</i> Say.	368	megasoma Say.
368	Planorbis armigerus Say.	368	umbrosa Say.
368	bicarinatus Say.	368	Physa heterostropha Say.
368	campanulatus Say.	368	elongata Say.
368	corpulentus Say.	368	Paludina decisa Say.
368	deflectus Say.	368	isogona Say.
368	exacutus Say.	368	subglobosa Say.
368	parvus Say.	368	Amnicola limosa Say.
368	trivolvus Say.	368	lustrica Say.
368	Limnea caperata Say.	368	Melania depygis Say.
	<i>L. umbilicata</i> Adams.	368	elevata Say.
368	catascopium Say.	368	Valvata tricarinata Say.
		368	sincera Say.

ORDER ACEPHALA.

369	Unio bullatus Raf.	369	Unio nervosus Raf.
	<i>U. pustulosus</i> Lea.		<i>U. zig-zag</i> Lea.
369	cardium Raf.		<i>donaciformis</i> Lea.
	<i>U. ventricosus</i> Barnes.	369	olivarius Raf.
369	cariosus Say.		<i>U. ellipsis</i> Lea.
369	clava Lam.	369	parvus Barnes.
	<i>U. mytiloides</i> Raf.	369	prasinus Conrad.
369	dilatatus Raf.		<i>U. Schoolcraftensis</i> Lea.
	<i>U. gibbosus</i> Barnes.	369	radiatus Lam.
369	fasciolaris Raf.	369	rectus Lam.
	<i>U. phaseolus</i> Hildreth.		<i>U. praelongus</i> Barnes.
	<i>mucronatus</i> Barnes.	369	reflexus Raf.
369	fasciatus Raf.		<i>U. cornutus</i> Barnes.
	<i>U. crassus</i> Barnes.	369	subrostratus Raf.
	<i>ellipticus</i> Barnes.		<i>U. iris</i> Lea.
	<i>carinatus</i> Barnes.	369	trigonus Lea.
369	luteolus Lam.	369	truncatus Raf.
	<i>U. siliquoides</i> Barnes.		<i>U. elegans</i> Lea.
	<i>inflatus</i> Barnes.	369	tuberculatus Raf.
369	metanevrus Raf.		<i>U. verrucosus</i> Barnes.
	<i>U. nodosus</i> Barnes.	369	undatus Barnes.

Page.		Page.	
369	Unio verrucosus Raf.	370	Alasmodonta marginata S.
	<i>U. tuberculatus</i> Barnes.	370	leptodon Raf.
369	Metaptera alata Conrad.		<i>Unio planus</i> Barnes.
	<i>Unio alatus</i> Say.		<i>tenuissima</i> Lea.
369	fragilis Conrad.	370	Strophites calceolus Conr.
	<i>Unio fragilis</i> Say.		<i>Unio calceolus</i> Lea.
	<i>gracilis</i> Barnes.	370	edentulus Conrad.
369	Plectomerus plicatus Conr.		<i>Alasmodonta edentula</i> Say.
	<i>Unio plicatus</i> Barnes.		<i>Anodonta edentula</i> DeKay.
370	Complanaria complanata	370	Anodonta cataracta Say.
	Conrad.		<i>A. fluviatilis</i> Lea.
	<i>Alasmodonta complanata</i>	370	declivis Conrad.
	Barnes.		<i>A. plana</i> Lea.
370	costata Conrad.	370	Ferussaciana Lea.
	<i>Alasmodonta costata</i> Raf.	370	imbecilis Say.
	<i>rugosa</i> Bar.		<i>A. incerta</i> Lea.
370	compressa Conrad.	370	Cyclas similis Say.
	<i>Symphynota compressa</i> Lea.		

Lea.—A Synopsis of the Family of Naiades: by ISAAC LEA, Member of the Amer. Phil. Soc., &c. Third edition, greatly enlarged and improved. Philadelphia, 1852.¹

GENUS MARGARON.

Subgenus **Unio.**

Page.		Page.	
	(SYMPHYNOTE.)		<i>Lymnadia alata</i> Sowb.
19	Unio Nicklinianus Lea.		<i>Metaptera alata</i> Stimp.
19	Boykinianus Lea.	19	Unio lævissimus Lea.
19	inflatus Lea.		<i>Symph. lævissima</i> Lea.
	<i>Symph. inflata</i> Lea.		<i>U. lævissima</i> Deshayes.
	<i>U. Alabamensis</i> Conrad.	19	gracilis Barnes.
19	alatus Say.		<i>U. planus</i> Barnes.
	<i>Mya alata</i> Wood.		<i>fragilis</i> Swain.
	<i>Symph. alata</i> Lea.		<i>Symph. gracilis</i> Lea.

¹ There is also, in the marginal notes, much information regarding the synonymy which is not given in a shape convenient to embody in my extract. As no localities are given, I have taken only those species which are repeated by Mr. Lea in the North American sections of his geographical tables. Mr. Lea published three editions of this Synopsis, in the Transactions of the Philosophical Society (q. v.), in 1836 and in 1852. The last two now follow.—W. G. B.

Page.		Page.	
	<i>Metaptera gracilis</i> Stimp.	21	Unio trapezoides Lea.
19	Unio pressus Lea.		<i>U. crassidens</i> Lam. var. a.
	<i>Symph. compressa</i> Lea.		<i>interruptus</i> Say.
	<i>Complanaria alasmodon-</i>	21	subtentus Say.
	<i>tina</i> Stimpson.	21	Conradicus Lea.
	<i>U. compressus</i> Conrad.	21	acutissimus Lea.
19	decoratus Lea.		(b. <i>Nodulosus</i> .)
19	atromarginatus Lea.	21	lachrymosus Lea.
	(NON-SYMPHYNOTE.)	21	asperrimus Lea.
	(a. <i>Plicatæ</i> .)		<i>U. quadrulus</i> Say.
20	multiplicatus Lea.	21	Rumphianus Lea.
	<i>U. heros</i> Say.	22	fragosus Conrad.
	<i>undulatus</i> Say.	22	Phillipsii Conrad.
20	undulatus Barnes.	22	Cincinnatiensis Lea.
	<i>U. costata</i> ? Raf.	22	pustulatus Lea.
	<i>costatus</i> Conrad.		<i>U. undulatus</i> Conrad.
20	perplicatus Conrad.	22	Schoolcraftensis Lea.
20	atrocostatus Lea.		<i>U. prasinus</i> Conrad.
20	plicatus Lesueur.		<i>nodiferus</i> Conrad.
	<i>U. Peruviana</i> Lam.	22	apiculatus Say.
	<i>raripecta</i> Lam.	22	asper Lea.
	<i>Dombeyanus</i> Valen.	22	Dorfeuillianus Lea.
	<i>undulata</i> Desh.	22	stapes Lea.
	<i>multiplicata</i> Desh.	22	tuberosus Lea.
	<i>crassus</i> Barnes.	22	sparsus Lea.
	<i>undulatus</i> Conrad.	22	metanevrus Raf.
20	infucatus Conrad.		<i>U. nodosus</i> Barnes.
	<i>U. securiformis</i> Conrad.		<i>rugosus</i> Barnes.
20	Kleinianus Lea.		<i>Telederma metanevra</i> Sw.
20	foliatus Hild.	22	intermedius Conrad.
	<i>U. flexuosa</i> ? Raf.	22	cornutus Barnes.
	<i>U. flexuosus</i> Conrad.		<i>U. reflexa</i> ? Raf.
	<i>foliatus</i> Conrad.		<i>reflexus</i> Conrad.
20	cælatatus Conrad.	22	pustulosus Lea.
20	Stewardsonii Lea.		<i>U. verrucosus</i> Barnes.
20	pliciferus Lea.		<i>verrucosa</i> Valen.
	<i>U. carbonarius</i> Lea.		<i>verrucosus albus</i> Say.
	<i>plexus</i> Conrad.		<i>bullatus</i> Conrad.
20	semigranulosus V. d. Busch.	22	Keinerianus Lea.
21	laticostatus Lea.	22	turgidus Lea.
21	hippopæus Lea.		<i>U. Mortoni</i> Conrad.
21	Sloatianus Lea.	22	Cooperianus Lea.
	<i>U. plectoforus</i> Conrad.		

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|----------|----------------------------------|-------|-----------------------------|
| Page. | | Page. | |
| 22 | Unio verrucosus Barnes. | 24 | Unio penitus Conrad. |
| | <i>U. tuberculata</i> ? Raf. | 24 | Estabrookianus Lea. |
| | <i>tuberculosa</i> Valen. | 24 | securis Lea. |
| | <i>verrucosus purpureus</i> | | <i>U. depressa</i> (?) Raf. |
| | Hild. | | <i>lineolatus</i> Say. |
| | <i>tuberculatus</i> Conrad. | 24 | abacus Hald. |
| 22 | graniferus Lea. | 24 | camelus Lea. |
| (Errata) | pernodosus Lea. | 24 | compressissimus Lea. |
| 22 | irroratus Lea. | 24 | ovatus Say. |
| | <i>U. verrucosus albus</i> Hild. | | <i>U. ventricosus</i> Desh. |
| | <i>stegarius</i> Conrad. | | <i>subovatus</i> Desh. |
| 22 | caperatus Lea. | | <i>occidens</i> Desh. |
| | <i>U. abacoides</i> Hald. | | <i>Æglia ovata</i> Swain. |
| 23 | dromas Lea. | 24 | satur Lea. |
| 23 | Lamarckianus Lea. | 24 | subovatus Lea. |
| 23 | Æsopus Green. | 24 | crassidens Lam. |
| | <i>U. cicatricosus</i> Conrad. | | <i>U. cuneatus</i> Barnes. |
| | <i>varicosus</i> Conrad. | | <i>niger</i> ? Raf. |
| | <i>cyphius</i> Conrad. | | <i>niger</i> Conrad. |
| 23 | varicosus Lea. | 24 | incrassatus Lea. |
| | <i>U. cicatricosus</i> ? Say. | 24 | Forbesianus Lea. |
| | <i>cicatricosus</i> Conrad. | 24 | gibber Lea. |
| 23 | perplexus Lea. | 24 | pumilis Lea. |
| | <i>U. gibbosus</i> ? Raf. | 24 | rubiginosus Lea. |
| | <i>gibbosus</i> Conrad. | | <i>U. flavus</i> Conrad. |
| 23 | tuberculatus Barnes. | | <i>cerinus</i> Conrad. |
| | <i>U. pustulata</i> Swain. | 24 | Bigbyensis Lea. |
| 23 | cylindricus Say. | 24 | maculatus Conrad. |
| | <i>U. naviformis</i> Lam. | 24 | Barnesianus Lea. |
| | (c. <i>Spinous</i> .) | 24 | cuneolus Lea. |
| 23 | spinous Lea. | 24 | pileus Lea. |
| 23 | collinus Conrad. | 25 | Sowerbianus Lea. |
| | (d. <i>Smooth</i> .) | 25 | trigonus Lea. |
| 23 | arcæformis Lea. | 25 | cyrenoides Phil. |
| | <i>U. nexus</i> Say. | 25 | Holstonensis Lea. |
| 23 | triangularis Barnes. | 25 | tumescens Lea. |
| | <i>U. formosus</i> Lea. | 25 | fulgidus Lea. |
| | <i>cuneatus</i> Swain. | 25 | solidus Lea. |
| 23 | Foremanianus Lea. | 25 | obliquus Lam. |
| 23 | elegans Lea. | | <i>U. undatus</i> Barnes. |
| | <i>U. truncatus</i> Say. | | <i>trigonus</i> Say. |
| 24 | donaciformis Lea. | | <i>mytiloides</i> Eat. |
| 24 | zigzag Lea. | | <i>undulatus</i> Desh. |
| 24 | heterodon Lea. | | <i>cordatus</i> ? Raf. |
| | | | <i>cordatus</i> Conrad. |
| | | | <i>cardiacea</i> Guérin. |

Page.		Page.	
25	Unio plenus Lea.	26	Unio occidentis Lea.
25	pyramidatus Lea.		<i>U. ventricosus</i> Say.
	<i>U. rubra?</i> Raf.		<i>lenis</i> (junior) Conrad.
	<i>mytiloides</i> Conrad.		<i>cardium</i> Conrad.
	<i>cardiacea</i> Desh.	27	lineatus Lea.
25	Bournianus Lea.	27	dolabræformis Lea.
25	Edgarianus Lea.	27	capax Green.
25	mytiloides Raf.		<i>Symph. globosa</i> Lea.
	<i>Mya obliqua</i> Wood.	27	splendidus Lea.
	<i>Uniopsis mytiloides</i> Swain.	27	ochraceus Say.
25	Troostensis Lea.		<i>Symph. ochracea</i> Lea.
	<i>U. trahalis</i> Conrad.		<i>U. rosaceus</i> Conrad.
25	trossulus Lea.		<i>Lampsilis ochracea</i> Stimp.
25	Taitianus Lea.	27	stagnalis Conrad.
26	cor Conrad.		<i>U. Ogecheensis</i> Conrad.
26	Hanleyianus Lea.	27	Clarkianus Lea.
26	decisus Lea.	27	crocatus Lea.
26	clavus Lam.	27	affinis Lea.
	<i>U. scalenia</i>	27	cariosus Say.
	<i>modioliformis</i> Say.		<i>U. cariosa</i> Lam.
26	patulus Lea.		<i>ocata</i> Valen.
26	oviformis Conrad.		<i>luteola</i> Conrad.
26	argenteus Lea.		<i>oratus</i> Conrad.
26	Ravenellianus Lea.		<i>Lampsilis cariosa</i> Stimp.
	<i>U. rudis</i> Conrad.	27	Georgianus Lea.
26	Troschelianus Lea.	27	perovatus Conrad.
26	strictus Lea.	27	altilis Conrad.
26	Rangianus Lea.	27	multiradiatus Lea.
	<i>U. gibbosus</i> Küst.		<i>U. fasciola?</i> Raf.
26	sulcatus Lea.		<i>fasciolus</i> Conrad.
	<i>U. ridibundus</i> Say.		<i>ligamentina</i> Desh.
26	Haysianus Lea.	27	Novi-Eboraci Lea.
26	ellipsis Lea.	27	saxeus Conrad.
	<i>U. brevialis?</i> Sowb.	27	perovalis Conrad.
26	castaneus Lea.	27	capsæformis Lea.
26	pulvinulus Lea.	27	Greenii Conrad.
26	Tampicoensis Lea.	27	pictus Lea.
26	Lecontianus Lea.	27	pallesceus Lea.
	<i>U. contrarius</i> Conrad.	27	Tennesseeensis Lea.
26	hebes Lea.	27	simplex Lea.
26	perdix Lea.	27	flavescens Lea.
	<i>U. pectorosus</i> Conrad.	27	interruptus Lea.
26	ventricosus Barnes.		<i>U. tenuiatus?</i> Conrad.
	<i>U. radiatus</i> Hild.		<i>la'iradiatus</i> Conrad.
	<i>Lampsilis ventricosa</i> Stim.		

Page.		Page.	
27	Unio Menkianus <i>Lea.</i>	29	Unio Nashvillianus <i>Lea.</i>
27	Stonensis <i>Lea.</i>	29	Mississippiensis <i>Conrad.</i>
27	venustus <i>Lea.</i>	29	Zeiglerianus <i>Lea.</i>
27	exiguus <i>Lea.</i>	29	lienosus <i>Conrad.</i>
27	Tecomatensis <i>Lea.</i>	29	constrictus <i>Conrad.</i>
28	spatulatus <i>Lea.</i>	29	placitus <i>Lea.</i>
28	ligamentinus <i>Lam.</i>	29	buxeus <i>Lea.</i>
	<i>U. crassus</i> <i>Say.</i>	29	concavus <i>Lea.</i>
	<i>ellipticus</i> <i>Barnes.</i>	29	obscurus <i>Lea.</i>
	<i>carinatus</i> <i>Barnes.</i>	29	proximus <i>Lea.</i>
	<i>Mya gravis</i> <i>Wood.</i>	29	nitens <i>Lea.</i>
	<i>U. fuscatus</i> <i>Conrad.</i>	29	Gouldii <i>Lea.</i>
28	orbiculatus <i>Hild.</i>	29	Moussonianus <i>Lea.</i>
	<i>U. abruptus</i> <i>Say.</i>	29	Monroensis <i>Lea.</i>
	<i>crassus</i> <i>Conrad.</i>	29	caliginosus <i>Lea.</i>
28	Hydianus <i>Lea.</i>	29	Binneyi <i>Lea.</i>
28	approximus <i>Lea.</i>	30	Bucklyi <i>Lea.</i>
28	Claibornensis <i>Lea.</i>	30	fuscatus <i>Lea.</i>
28	Powellii <i>Lea.</i>	30	occultus <i>Lea.</i>
28	Reeveianus <i>Lea.</i>	30	luridus <i>Lea.</i>
28	luteolus <i>Lam.</i>	30	nigellus <i>Lea.</i>
	<i>U. siliquoides</i> <i>Barnes.</i>	30	Cumberlandianus <i>Lea.</i>
	<i>inflatus</i> <i>Barnes.</i>		<i>U. Cumberlandicus</i> <i>Chenu.</i>
	<i>melinus</i> <i>Conrad.</i>	30	vibex <i>Conrad.</i>
	<i>rosaceus</i> <i>De Kay.</i>	30	Muhlfieldianus <i>Lea.</i>
	<i>Lampsilis siliquidea</i> <i>St.</i>	31	creperus <i>Lea.</i>
28	stramineus <i>Conrad.</i>	31	glaber <i>Lea.</i>
28	aratus <i>Lea.</i>	31	fabalis <i>Lea.</i>
28	pulcher <i>Lea.</i>		<i>U. capillus</i> <i>Say.</i>
28	tener <i>Lea.</i>		<i>lapillus</i> <i>Say.</i>
29	Prevostianus <i>Lea.</i>	31	paulus <i>Lea.</i>
29	radiatus <i>Lam.</i>	31	pusillus <i>Lea.</i>
	<i>U. Virginiana</i> <i>Lam.</i>	31	parvus <i>Barnes.</i>
	<i>Mya radiata</i> <i>Gmel.</i>	31	Haleianus <i>Lea.</i>
	<i>oblongata</i> <i>Wood.</i>	31	nigerrimus <i>Lea.</i>
	<i>pictorum tenuis</i> <i>Chem.</i>	31	minor <i>Lea.</i>
	<i>Lampsilis radiata</i> <i>Stimp.</i>	31	glans <i>Lea.</i>
29	regularis <i>Lea.</i>	31	nux <i>Lea.</i>
29	amcenus <i>Lea.</i>	31	Brumbyanus <i>Lea.</i>
29	Sapotalensis <i>Lea.</i>	31	mæstus <i>Lea.</i>
29	Oregonensis <i>Lea.</i>	31	pullus <i>Conrad.</i>
29	Medellinus <i>Lea.</i>	31	ineptus <i>Lea.</i>
29	notatus <i>Lea.</i>	31	discus <i>Lea.</i>
29	subangulatus <i>Lea.</i>		<i>U. Panacensis</i> <i>V. d. Busch.</i>
29	Vanuxemensis <i>Lea.</i>	31	simus <i>Lea.</i>

Page.		Page.	
32	Unio brevidens Lea.	33	Unio fulvus Lea.
	<i>U. interruptus</i> Conrad.		<i>U. icterinus</i> Conrad.
32	tetralasmus Say.	33	rufusculus Lea.
32	camptodon Say.	33	Gibbesianus Lea.
	<i>U. declivis</i> Conrad.	33	sordidus Lea.
	<i>Sayii</i> Tappan.	33	Dariensis Lea.
	<i>rhomboidius</i> Ward, MS.	33	Congaræus Lea.
32	obesus Lea.	33	neglectus Lea.
32	Hopetonensis Lea.	33	subplanus Conrad.
32	fraternus Lea.	33	declivis Say.
32	Cuverianus Lea.		<i>U. geometricus</i> Lea.
32	Roanokensis Lea.		<i>excultus</i> Conrad.
32	jejunus Lea.	33	paludicolus Gould.
32	complanatus Lea.	33	Blandingianus Lea.
	<i>Mya complanata</i> Soland.	34	famelicus Gould.
	<i>rigida</i> Wood.	34	circulus Lea.
	<i>U. violaceus</i> Spangler.		<i>Mya rotunda?</i> Wood.
	<i>purpureus</i> Say.	34	lens Lea.
	<i>rarisulcata</i> Lam.	34	unicolor Lea.
	<i>coarctata</i> Lam.	34	rubellus Conrad.
	<i>purpurascens</i> Lam.	34	Masoni Conrad.
	<i>rhombula</i> Lam.	34	rotundatus Lam.
	<i>carinifera</i> Lam.		<i>U. suborbiculata</i> Lam.
	<i>Georgina</i> Lam.		<i>glebulus</i> Say.
	<i>glabrata</i> Lam.		<i>subglobosus</i> Lea.
	<i>sulcidens</i> Lam.	35	personatus Say.
	<i>fluvialilis</i> Green.		<i>U. capillaris</i> Lea.
	<i>subinflata</i> Conrad.	35	retusus Lam.
	<i>planilaterus</i> Conrad.		<i>U. torsa</i> Raf.
32	symmetricus Lea.		<i>obtusa</i> Cuvier.
32	limatulus Conrad.		<i>cordatus</i> (fem.) Küst.
32	Buddianus Lea.	35	ebenus Lea.
33	Griffithianus Lea.		<i>U. mytiloides</i> Conrad.
33	confertus Lea.		<i>obliquus</i> Conrad.
33	Geddingsianus Lea.		<i>Gouldianus</i> Ward.
33	Whiteianus Lea.	35	Lesuerianus Lea.
33	fuliginosus Lea.	35	nucleopsis Conrad.
33	paliatus Ravenel's letter.	35	Kirtlandianus Lea.
33	Tuomeyi Lea.	35	pillaris Lea.
33	callosus Lea.	35	dollabelloides Lea.
33	tortivus Lea.	35	subrotundus Lea.
33	occidentalis Conrad.		<i>U. politus?</i> Say.
33	Watereensis Lea.		<i>brevialis?</i> Crouch.
	<i>U. Raveneli</i> Conrad.		<i>politus</i> Conrad.

Page.		Page.	
47	Anodonta Californiensis Lea. (NON-SYMPHYNOTE.) (b. Smooth)	50	Anodonta fluviatilis Lea. <i>Myt. fluviatilis</i> Dill. <i>illitus</i> Soland?
49	Oregonensis Lea. <i>A. cognata</i> Gould.		<i>A. cataracta</i> Say. <i>marginata</i> Say. <i>teres</i> Conrad.
49	Pepiniana Lea.		<i>Unio cataracta</i> Desh.
49	fragilis Lam.	50	opaca Lea.
49	Footiana Lea.	50	Arkansensis Lea.
49	undulata Say. <i>Anodon rugosus</i> Swain. <i>Anodonta Pennsylvanica</i> Lam.	50	glauca Valen. <i>A. glauca</i> Lam. <i>ovatus</i> Swain.
	<i>Unio undulata</i> Desh.	50	ovata Lea.
	<i>Alas. marginata</i> Küst.	50	plana Lea. <i>A. declivis</i> Conrad.
	<i>Strophitus undulatus</i> Stim.	50	decora Lea.
49	Wardiana Lea. <i>A. virgata</i> Conrad.	50	Harpethensis Lea.
49	edentula Lea. <i>Alas. edentula</i> Say. <i>An. areolatus</i> Swain. <i>unadilla</i> De Kay.	50	gigantea Lea.
50	pavonia Lea.	50	subvexa Conrad.
50	Ferussaciana Lea. <i>Alas. Ferussaciana</i> Küst.	51	Stewartiana Lea.
50	denigrata Lea.	51	virens Lea.*
50	oblita Lea.	51	gibbosa Say. <i>A. inflata</i> Major Leconte's cabinet.
50	argentea Lea.	51	Couperiana Lea.
50	ferruginea Lea.	51	grandis Say. <i>A. corpulenta</i> Coop.
50	salmonia Lea.	51	tetragona Lea.
50	imbecilis Say. <i>A. incerta</i> Lea.	51	Shaefferiana Lea.
50	implicata Say. <i>A. Newtonensis</i> Lea. <i>excurvata</i> De Kay.	51	suborbiculata Say.
		51	Linnæana Lea.
		51	cylindræa Lea.
		51	subcylindræa Lea.
		51	Buchanensis Lea.
		52	angulata Lea. <i>A. feminalis</i> .

[I presume the following to be the only American species in the list of those unknown to the author.—W. G. B.]

Page.		Page.	
53	Anodonta impura Say.	53	Anodonta placitus Hald.
53	lugubris Say.		

[Here follows a list of species with which the author is unacquainted. No habitats being given, I cannot be sure of any being American, but presume the following to be so.—W. G. B.]

Page.		Page.	
39	Unio Aberti Conrad.	40	Unio parallelus Conrad.
40	fervus Conrad.	40	Pequottinus Linsl.
40	metastriatus Conrad.	40	puniceus Hald.
40	Mexicanus Phil.	40	purpuratus Say.
Subgenus Margaritana.			
	(SYMPHYNOTE.)	42	Margaritana undulata Lea.
	(a. Plicate.)		<i>Alas. undulata</i> Say.
42	Margaritana complanata Lea.		<i>sculptilis</i> (jun.) Say.
	<i>Alas. complanata</i> Barnes.		<i>Strophitus sculptilis</i> Stim.
	<i>Symph. complanata</i> Lea.		<i>Mya undulata</i> Wood.
	<i>Unio complanata</i> Desh.		<i>Unio hians</i> Valen.
	<i>Katherina</i> Lea.		<i>glabratus</i> Sowb.
	(NON-SYMPHYNOTE.)	42	Raveneliana Lea.
	(a. Plicate.)	43	radiata Lea.
42	confragosa Lea.		<i>Alas. radiata</i> Conrad.
	<i>Alas. confragosa</i> Say.		<i>Unioopsis radiata</i> ? Swain.
	<i>Unio confragosa</i> Desh.	43	calceola Lea.
42	arcula Lea.		<i>Unio calceolus</i> Lea.
42	marginata Lea.		<i>Alas. marginata</i> Say.
	<i>Alas. marginata</i> Say.		<i>truncata</i> Conrad.
	<i>truncata</i> Say.	43	Hildrethiana Lea.
	<i>Unio cariosa</i> Lam. (var. 2.)		<i>Unio Hildrethianus</i> Lea.
	<i>varicosa</i> Lam.		<i>Alas. ambigua</i> ? Say.
	<i>calceolus</i> Say.	43	dehiscens Lea.
	<i>Mya regulosa</i> Wood.		<i>Unio dehiscens</i> Say.
	<i>Alas. corrugata</i> De Kay.		<i>oriens</i> Lea.
42	rugosa Lea.	43	margaritifera Lea.
	<i>Alas. rugosa</i> Barnes.		<i>M. fluviatilis</i> Schum.
	<i>abducta</i> Say.		<i>arcuata</i> Stimpson.
	<i>Complanaria rugosa</i> Stim.		<i>Unio Carolinianus</i> Bose.
	(b. Smooth.)		<i>Alas. arcuata</i> Barnes.
42	deltoides Lea.		<i>falcata</i> Gould.
42	minor Lea.	44	Holstonia Lea.
42	Curreyana Lea.	44	fabula Lea.
			(Unknown.)
		44	Etowaensis Conrad.
Subgenus Anodonta.			
	(SYMPHYNOTE.)	47	Anodonta Benedictensis Lea.
	(a. Smooth.)		<i>Symph. Benedictensis</i> Lea.
47	Anodonta Wahlamatensis		<i>A. cultratus</i> Gould.
	Lea.	47	Nuttalliana Lea.

Page.		Page.	
58	<i>Unio pusella</i> Raf.?	58	<i>Unio teres</i> Raf.?
58	<i>pallens</i> Raf.?	58	<i>triangularis</i> Raf.?
58	<i>perplexus</i> Raf.?	58	<i>triqueter</i> Raf.?
58	<i>quadrula</i> Raf.?	58	<i>truncata</i> Raf.?
58	<i>reflexa</i> Raf.?	58	<i>tuberculata</i> Raf.?
58	<i>retusa</i> Raf.?	58	<i>verrucosa</i> Raf.?
58	<i>rimosus</i> Raf.?	58	<i>viridis</i> Raf.?
58	<i>rosea</i> Raf.?	58	<i>vittatus</i> Raf.?
58	<i>rivularis</i> Raf.?	58	<i>Venus</i> Raf.?
58	<i>stegaria</i> Raf.?	58	<i>zonalis</i> Raf.?
58	<i>sintoxia</i> Raf.?	58	<i>Odatelia radiata</i> Raf.?
58	<i>sinuata</i> Raf.?	58	<i>Lasmonos fragalis</i> Raf.?
58	<i>solenoides</i> Raf.?	58	<i>Diplasma marginatæ</i> Raf.?
58	<i>striata</i> Raf.?	58	<i>similis</i> Raf.?
58	<i>subrotunda</i> Raf.?	58	<i>vitrea</i> Raf.?
58	<i>torulosa</i> Raf.?	58	<i>striata</i> Raf.?
58	<i>teneltus</i> Raf.?		

Lea.—Synopsis, &c. Second edition, 1836. With a frontispiece of *Unio spinosus*.

GENUS MARGARITA.

Subgenus *Unio*.

Page.		Page.	
	(SYMPHYNOTE.)	12	<i>Unio cœlatus</i> Conrad.
	(b. Smooth.)	12	<i>multiplicatus</i> Lea.
11	<i>Unio inflatus</i> Lea.		<i>U. heros</i> Say.
	<i>Symph. inflata</i> Lea.		<i>undulatus</i> Say.
11	<i>alatus</i> Say.	12	<i>undulatus</i> Barnes.
	<i>U. alatus</i> Say.		<i>U. costata</i> ? Raf.
	<i>Mya alata</i> Wood.		<i>costatus</i> Conrad.
	<i>Symph. alata</i> Lea.	12	<i>plicatus</i> Lesueur.
11	<i>lævissimus</i> Lea.		<i>U. Peruviana</i> Lam.
	<i>Symph. lævissima</i> Lea.		<i>raripectata</i> Lam.
	<i>U. lævissima</i> Deshayes.		<i>Dombeyanus</i> Valen.
11	<i>gracilis</i> Barnes.		<i>undulata</i> Desh.
	<i>U. planus</i> Barnes.		<i>multiplicata</i> Desh.
	<i>fragilis</i> Swain.	12	<i>trapezoides</i> Lea.
	<i>Symph. gracilis</i> Lea.		<i>U. crassidens</i> Lam., var. a.
11	<i>compressus</i> Lea.		<i>interruptus</i> Say.
	<i>Symph. compressa</i> Lea.	13	<i>foliatus</i> Hild.
	(NON-SYMPHYNOTE.)		<i>U. flexuosa</i> ? Raf.
	(a. Plicate.)		<i>flexuosus</i> Conrad.
12	<i>Nicklinianus</i> Lea.		<i>foliatus</i> Conrad.

Page.		Page.	
13	Unio pliciferus Lea.	17	Unio varicosus Lea.
13	<i>subtentus</i> Say.		<i>U. cicatricosus?</i> Say.
13	Conradicus Lea.	17	perplexus Lea.
14	acutissimus Lea.		<i>U. gibbosus?</i> Raf.
	(<i>v. Nodulos.</i>)		<i>gibbosus</i> Conrad.
14	lachrymosus Lea.	17	tuberculatus Barnes.
14	asperrimus Lea.	17	cylindricus Say.
	<i>U. quadrulus</i> Say.		<i>U. naviformis</i> Lam.
14	fragrosus Conrad.		(<i>c. Spinous.</i>)
15	Phillipsii Conrad.	17	spinosus Lea.
15	pustulatus Lea.		(<i>d. Smooth.</i>)
15	Schoolcraftensis Lea.	18	arcæformis Lea.
	<i>U. prasinus</i> Conrad.		<i>U. nexus</i> Say.
15	apiculatus Say.	18	triangularis Barnes.
15	asper Lea.		<i>U. formosus</i> Lea.
15	stapes Lea.		<i>cuneatus</i> Swain.
15	metanevra Lea.	18	elegans Lea.
	<i>U. metanevra</i> Raf.	18	donaciformis Lea.
	<i>nodosus</i> Barnes.	18	zigzag Lea.
	<i>rugosus</i> Barnes.	18	heterodon Lea.
	<i>metanevra</i> Conrad.	18	penitus Conrad.
15	cornutus Barnes.	19	securis Lea.
	<i>U. reflexa?</i> Raf.		<i>U. depressa</i> Raf.
	<i>reflexus</i> Conrad.	19	camelus Lea.
15	pustulosus Lea.	19	ovatus Say.
	<i>U. verrucosus</i> Bar., var. b.		<i>U. ventricosus</i> Desh.
	<i>verrucosa</i> Valen.		<i>subovatus</i> Desh.
	<i>verrucosus albus</i> Say.		<i>occidens</i> Desh.
16	turgidus Lea.	19	subovatus Lea.
	<i>U. Mortoni</i> Conrad.	19	crassidens Lam.
16	Cooperianus Lea.		<i>U. cuneatus</i> Barnes.
16	verrucosus Barnes.		<i>niger?</i> Raf.
	<i>U. tuberculata?</i> Raf.		<i>niger</i> Conrad.
	<i>tuberculosa</i> Valen.	19	carbonarius Lea.
	<i>verrucosus purpureus</i>	20	gibber Lea.
	Hild.	20	pumilis Lea.
	<i>tuberculatus</i> Conrad.	20	rubiginosus Lea.
16	nodulosus Lea.	20	Barnesianus Lea.
	<i>Mya nodulosa</i> Wood.	20	pileus Lea.
16	irroratus Lea.	20	Sowerbianus Lea.
	<i>U. verrucosus albus</i> Hild.	20	solidus Lea.
16	dromas Lea.	20	obliqua Lam.
17	Æsopus Green.		<i>U. undatus</i> Barnes.
	<i>U. cicatricosus</i> Conrad.		<i>trigonus</i> Say.
	<i>varicosus</i> Conrad.		

Page.		Page.	
	<i>U. mytiloides</i> Eat.		<i>U. ligamentina</i> Desh.
	<i>undulatus</i> Desh.	24	Unio perovallis Conrad.
	<i>cordatus?</i> Raf.	24	<i>capsæformis</i> Lea.
	<i>cordatus</i> Conrad.	24	Greenii Conrad.
21	Unio pyramidatus Lea.	24	<i>pictus</i> Lea.
	<i>U. rubra?</i> Raf.	24	<i>tæniatus</i> Conrad.
	<i>mytiloides</i> Conrad.	24	<i>interruptus</i> Lea.
21	mytiloides Raf.	24	<i>venustus</i> Lea.
	<i>Mya obliqua</i> Wood.	24	<i>crassus</i> Say.
21	Troostensis Lea.		<i>U. ellipticus</i> Barnes.
	<i>U. trabalis</i> Conrad.		<i>carinatus</i> Barnes.
21	Taitianus Lea.		<i>ligamentina</i> Lam.
21	<i>cor</i> Conrad.		<i>Mya gravis</i> Wood.
21	<i>decisus</i> Lea.		<i>U. fasciatus</i> Conrad.
22	<i>clavus</i> Lam.	25	orbiculatus Hild.
	<i>U. scalenia</i> Raf.		<i>U. abruptus</i> Say.
	<i>modioliformis</i> Say.		<i>crassus</i> Conrad.
22	<i>patulus</i> Lea.	25	Hydianus Lea.
22	Ravenelianus Lea.	25	luteolus Lam.
22	<i>sulcatus</i> Lea.		<i>U. siliquoides</i> Barnes.
	<i>U. ridibundus</i> Say.		<i>inflatus</i> Barnes.
22	Haysianus Lea.	25	<i>pulcher</i> Lea.
22	<i>ellipsis</i> Lea.	25	radiatus Lam.
22	<i>castaneus</i> Lea.		<i>U. Virginiana</i> Lam.
22	Tampicoensis Lea.		<i>Mya radiata</i> Gmel.
23	Lecontianus Lea.		<i>oblongata</i> Wood.
23	<i>perdix</i> Lea.		<i>pictorum tenuis</i> Chem.
23	<i>pectorosus</i> Conrad.	26	Medellinus Lea.
23	<i>ventricosus</i> Barnes.	26	<i>notatus</i> Lea.
23	<i>occidens</i> Lea.	26	Vanuxemensis Lea.
	<i>U. ventricosus</i> Say.	26	Nashvillianus Lea.
23	<i>globosa</i> Lea.	26	Zeiglerianus Lea.
	<i>Symph. globosa</i> Lea.	26	<i>lienosus</i> Conrad.
	<i>U. capax?</i> Green.	26	<i>obscurus</i> Lea.
23	<i>ochraceus</i> Say.	27	Cumberlandianus Lea.
	<i>Symph. ochracea</i> Lea.	27	vibex Conrad.
23	splendidus Lea.	27	Muhlfeldianus Lea.
23	<i>cariosus</i> Say.	28	<i>creperus</i> Lea.
	<i>U. cariosa</i> Lam.	28	<i>glaber</i> Lea.
	<i>ovata</i> Valen.	28	Hildrethianus Lea.
	<i>luteola</i> Conrad.		<i>Alas. ambigua?</i> Say.
24	<i>perovatus</i> Conrad.	28	fabalis Lea.
24	<i>altilis</i> Conrad.		<i>U. capillus</i> Say.
24	multiradiatus Lea.		<i>lapillus</i> Say.
	<i>U. fasciola?</i> Raf.	28	parvus Barnes.
	<i>fasciolus</i> Conrad.		<i>U. parvus</i> Conrad.

Page.		Page.	
28	Unio glans Lea.	34	Unio retusus Lam.
29	brevi dens Lea.		<i>U. torsa</i> Raf.
30	tetralasmus Say.	34	ebenus Lea.
30	camptodon Say.		<i>U. mytiloides</i> Conrad.
	<i>U. declivis</i> Conrad.	34	maculatus Conrad.
30	obesus Lea.	34	Kirtlandianus Lea.
30	Hopetonensis Lea.	34	subrotundus Lea.
30	Roanokensis Lea.		<i>U. politus</i> ? Say.
30	jejunus Lea.		<i>brevialis</i> ? Crouch.
30	complanatus Lea.	34	infucatus Conrad.
	<i>Mya complanata</i> Sol.	34	coccineus Lea.
	<i>rigida</i> Wood.		<i>U. coccineus</i> Hildreth's
	<i>U. violaceus</i> Spangler.		letter, Conrad.
	<i>purpureus</i> Say.		<i>catillus</i> Conrad.
	<i>rarisulcata</i> Lam.	34	Shepardianus Lea.
	<i>coarctata</i> Lam.	34	folliculatus Lea.
	<i>purpurascens</i> Lam.	34	rectus Lam.
	<i>rhombula</i> Lam.		<i>U. praelongus</i> Barnes.
	<i>carinifera</i> Lam.		<i>recta</i> Valen.
	<i>Georgina</i> Lam.		<i>Sageri</i> ? Conrad.
	<i>glabrata</i> Lam.		<i>Mya praelonga</i> Wood.
	<i>sulcidens</i> Lam.	35	dehiscens ? Say.
	<i>fluvialilis</i> Green.		<i>U. oriens</i> Lea.
31	Griffithianus Lea.	35	angustatus Lea.
31	confertus Lea.	35	lanceolatus Lea.
31	palliat us Ravenel's letter.	35	anodontoides Lea.
31	Watereensis Lea.		<i>U. teres</i> ? Raf.
	<i>U. Raveneli</i> Conrad.		<i>teres</i> Conrad.
32	fulvus Lea.	37	productus Conrad.
	<i>U. icterinus</i> Conrad.	37	nasutus Say.
32	Congaræus Lea.		<i>U. rostratus</i> Valen.
32	declivis Say.		<i>Mya nasuta</i> Wood.
	<i>U. geometricus</i> Lea.		<i>U. subrostratus</i> ? Say.
32	Blandingianus Lea.	37	Fisherianus Lea.
33	circulus Lea.	37	Jayensis Lea.
	<i>Mya rotunda</i> ? Wood.	37	lugubris Lea.
33	lens Lea.	37	iris Lea.
33	rubellus Conrad.		<i>U. nebulosus</i> Conrad.
33	Masoni Conrad.	38	tenuissimus Lea.
33	rotundatus Lam.		<i>Symph. tenuissima</i> Lea.
	<i>U. suborbiculata</i> Lam.		<i>An. purpurascens</i> Swain.
	<i>glebulus</i> Say.		<i>U. velum</i> Say.
	<i>subglobosus</i> Lea.	38	phaseolus Hild.
33	personatus Say.		<i>U. planulatus</i> Lea.
	<i>U. capillaris</i> Lea.		<i>cuneatus</i> Barnes.

Page.		Page.	
38	Unio arcus Conrad.		<i>U. ater</i> Lea.
38	arctatus Conrad.		<i>lugubris</i> Say.
38	gibbosus Barnes.		<i>Poulsoni</i> Conrad.
	<i>U. mucronatus</i> Barnes.	39	Unio cuprinus Lea.
	<i>nasuta</i> Lam.		<i>U. metallicus</i> Say.
	<i>dilatata</i> ? Raf.	39	modioliformis Lea.
	<i>dilatatus</i> Conrad.		<i>U. delumbis</i> Conrad.
39	arctior Lea.	39	tenerus Rav.
39	Vaughanianus Lea.		<i>U. tenebrosus</i> Conrad.
	<i>U. Carolinensis</i> Rav. lett.	39	Tappanianus Lea.
39	purpuratus Lam.	39	stramineus Conrad.
	<i>Mya ventricosa</i> Solan.	40	monodontus Say.
			<i>U. soleniformis</i> Lea.

[The following species are known to the author by name only.—W. G. B.]

Page.		Page.	
41	Unio Grœnlandicus Schrôt.	41	Unio oviformis Conrad.
41	purpuratus Say.	41	furvus Conrad.

Subgenus **Margaritana**.

(SYMPHYNOTE.)			<i>Alas. sculptilis</i> (y'ng) Say.
(a. Plicate.)			<i>Mya undulata</i> Wood.
43	Margaritana complanata Lea.		<i>Unio hians</i> Valen.
	<i>Alas. complanata</i> Barnes.		<i>glabratus</i> Sowb.
	<i>Symph. complanata</i> Lea.	44	Margaritana Raveneliana
			Lea.
(NON SYMPHYNOTE.)		44	radiata Lea.
(a. Plicate.)			<i>Alas. radiata</i> Conrad.
43	confragosa Lea.	45	calceola Lea.
	<i>Alas. confragosa</i> Say.		<i>Unio calceolus</i> Lea.
43	arcula Lea.		<i>Alas. marginata</i> Say.
43	marginata Lea.		<i>truncata</i> Conrad.
	<i>Alas. marginata</i> Say.	45	margaritifera Lea.
	<i>truncata</i> Say.		<i>Mya margaritifera</i> Linn.
	<i>Unio cariosa</i> Lam. (var. 2.)		<i>Margaritana fluviatilis</i>
	<i>varicosa</i> Lam.		Schum.
	<i>calceolus</i> Say.		<i>Unio elongata</i> Lam.
	<i>Mya regulosa</i> Wood.		<i>sinuata</i> Pfeif.
44	rugosa Lea.		<i>Roissyi</i> Mich.
	<i>Alas. rugosa</i> Barnes.		<i>margaritiferus</i> Pfeif.
	<i>abducta</i> Say.		<i>rivalis</i> Zeig.
(b. Smooth.)			<i>Al. margaritiferum</i> Flem.
44	deltoidea Lea.		<i>arcuata</i> Barnes.
44	undulata Lea.	46	Holstonia Lea.
	<i>Alas. undulata</i> Say.	46	fabula Lea.

Subgenus **Anodonta**.

Page.		Page.	
	(SYMPHYNOTE.)		<i>Myt. illitus</i> Soland.
	(a. Smooth.)		<i>A. cataracta</i> Say.
48	Anodonta Benedictensis Lea.		<i>implicata?</i> Say.
	<i>Symph. Benedictensis</i> Lea.		<i>teres</i> Conrad.
	(NON-SYMPHYNOTE.)	51	Anodonta glauca Valen.
	(b. Smooth.)		<i>A. glauca</i> Lam.
50	fragilis Lam.	52	ovata Lea.
50	undulata Say.	52	plana Lea.
	<i>Anodon rugosus</i> Swain.		<i>A. declivis</i> Conrad.
	<i>Anodonta Pennsylvanica</i>	52	decora Lea.
	Lam.	52	gigantea Lea.
50	Wardiana Lea.	52	subvexa Conrad.
	<i>A. virgata</i> Conrad.	52	Stewartiana Lea.
50	edentula Lea.	52	globosa Say.
	<i>Alas. edentula</i> Say.		<i>A. inflata</i> Maj. LeConte's
	<i>Anodon areolatus</i> Swain.		cabinet.
51	Ferussaciana Lea.	52	grandis Say.
51	salmonia Lea.		<i>A. corpulenta</i> Coop.
51	incerta Lea.	52	suborbiculata Say.
51	fluviatilis Lea.	54	cylindracea Lea.
	<i>Myt. fluviatilis</i> Soland.	54	Buchanensis Lea.

[The following species are unknown to the author.—W. G. B.]

Page.		Page.	
54	Anodonta imbecilis Say.	54	Anodonta impura Say.
54	lugubris Say.		

[A list of uncertain species of Rafinesque is given on pp. 58 and 59. It is the same as copied from the third edition.—W. G. B.]

In the Addenda, *Anodonta marginata* Say = *A. fluviatilis*.

Unio Dorfeuilianus Lea.
graniferus Lea.
Rangianus Lea.
Menkianus Lea.
discus Lea.
contradens Lea.

Anodonta Nuttalliana Lea.
Wahlamatensis Lea.
Oregonensis Lea.
pavonia Lea.
Newtonensis Lea.

Adams.—Shells: by Prof. C. B. ADAMS. From the Exploration of the Red River of Louisiana, by Capt. Marcy. Washington, 1854.

[No descriptions are given. The particular localities are noted.]

Page.	Name.	Locality.
242	<i>Unio asperrimus</i> Lea.	Otter creek, lat. 34° 35' N.,
242	—————	long. 100° W.
243	<i>tuberculatus</i> Barnes.	Otter creek.
243	<i>anodontoides</i> Lea.	Otter creek.
243	<i>parvus</i> Barnes.	Otter creek.
243	<i>Hydianus</i> Lea.	Fort Washita.
243	<i>lævissimus</i> Lea.	Otter creek?
243	<i>gracilis</i> Barnes.	Otter creek.
243	<i>Cyclas distorta</i> Prime.	Otter creek.
243	<i>Bulimus liquabilis</i> Reeve.	Otter creek.
243	<i>Physa ancillaria</i> Say.	Otter creek.
244	<i>heterostropha</i> Say.	Otter creek.
244	<i>Limnæa caperata</i> Say.	One day from Cache creek.
244	<i>Planorbis lentus</i> Say.	One day from Cache cr., &c.

Also—Notes on the geographical distribution of the above.

Schumard.—Notices of Additional Species of Shells: by G. C. SCHUMARD, M. D.

Page.	Name.	Locality.
244	<i>Unio anodontoides</i> Lea.	Little Wichita, &c.
244	<i>rugosus</i> Barnes.	Little Wichita.
245	<i>siliquoides</i> Barnes.	Near Otter creek.
245	<i>lævissimus</i> Lea.	Otter creek.
245	<i>Anodonta imbecillis</i> Say.	Beaver creek, &c.
245	<i>Planorbis trivolvus</i> Say.	
245	<i>Physa gyrina</i> Say.	Beaver cr., Choctaw nation.
245	<i>Succinea avara</i> Say.	Otter cr., Choctaw nation.
245	<i>Cyclas partumeia</i> Say.	Otter and Beaver creeks.
245	<i>Bulimus dealbatus</i> Say.	Texas.

Stimpson.—Synopsis of the Marine Invertebrata of Grand Manan, or the region about the mouth of the Bay of Fundy, New Brunswick: by WILLIAM STIMPSON. (Smithsonian Contributions to Knowledge, vol. vi. Washington, 1854.)

[Descriptions of new species are given in full, with notes on those previously known.]

Page.		Page.	
19	<i>Ascidia callosa</i> Stimp.	21	<i>Macra ponderosa</i> Phil.
20	<i>tenella</i> Stimp.	21	<i>solidissima</i> Chemn.
20	<i>geometrica</i> Stimp.	21	<i>Tellina fusca</i> Phil.
20	<i>Glandula fibrosa</i> Stimp.	21	<i>proxima</i> Brown.
20	<i>mollis</i> Stimp.	21	<i>Solen ensis</i> Linn.
20	<i>Cynthia pyriformis</i> Rathke.	21	<i>Thracia truncata</i> Mighels.
20	<i>echinata</i> Stimp.	21	<i>myopsis</i> Beck.
20	<i>Boltenia rubra</i> Stimp.		<i>T. Couthouyi</i> Stimp.
20	<i>reniformis</i> (?) McLeay.	21	<i>Conradi</i> Couth.
20	<i>Terebratulæ septentrionalis</i> Couth.	21	<i>Lyonsia hyalina</i> Conrad.
20	<i>Anomia ephippium</i> Linn.	21	<i>Pandora trilineata</i> Say.
20	<i>aculeata</i> Gmelin.	21	<i>Næra pellucida</i> St. (fig. 13.)
20	<i>Pecten Magellanicus</i> Lam.	22	<i>Panopæa Norvegica</i> Lovén.
20	<i>Islandicus</i> Müll.	22	<i>Mya truncata</i> L.
20	<i>Nucula proxima</i> Say.	22	<i>arenaria</i> L.
20	<i>tenuis</i> Turton.	22	<i>Saxicava rugosa</i> Lam.
20	<i>delphinodonta</i> Mighels.	22	<i>arctica</i> Desh.
20	<i>Leda thraciæformis</i> Stimp.	22	<i>Pholas crispata</i> L.
20	<i>sapotilla</i> Stimp.	22	<i>Dentalium striolatum</i> Stimp.
20	<i>myalis</i> Stimp.	22	<i>Chiton albus</i> L.
20	<i>limatula</i> Stimp.	22	<i>ruber</i> L.
21	<i>tenuisulcata</i> Stimp.	22	<i>marmoreus</i> O. Fabr.
21	<i>Mytilus decussatus</i> Stimp.	22	<i>mendicarius</i> Mighels.
21	<i>corrugata</i> Stimp.	22	<i>Pilidium cæcum</i> .
21	<i>discors</i> L.		<i>Patella cæca</i> Müll.
21	<i>levigatus</i> Stimp.		<i>candida</i> Couth.
21	<i>discrepans</i> Mont.		<i>Pilidium candidum</i> Stimp.
21	<i>modiolus</i> L.	22	<i>Tectura testudinalis</i> Gray.
21	<i>edulis</i> L.	22	<i>Calyptræa striata</i> Say.
21	<i>Thyasira Gouldii</i> Stimp.	22	<i>Diadora Noachina</i> Gray.
21	<i>Cardita borealis</i> Conrad.	23	<i>Trochus occidentale</i> Mighels.
21	<i>Astarte sulcata</i> Flem.	23	<i>Margarita cinerea</i> Gould.
21	<i>quadrans</i> Gould.	23	<i>obscura</i> Gould.
21	<i>Cyprina Islandica</i> Lam.	23	<i>undulata</i> Sowb.
21	<i>Cardium Islandicum</i> Linn.	23	<i>argentata</i> Gould.
21	<i>pinnulatum</i> Conrad.	23	<i>helicina</i> Möll.
		23	<i>acuminata</i> Sowb.

Page.		Page.	
23	<i>Adeorbis costulata</i> Stimp.	24	<i>Tritonium decemcostatum</i> Midd.
23	<i>Littorina rudis</i> Gould.		
23	<i>litoralis</i> F. & H.	24	<i>pygmæum</i> Stimp.
23	<i>Lacuna vineta</i> Turton.	24	<i>clathratum</i> Müll.
23	<i>Rissoa eburnea</i> Stimp.	24	<i>Fasciolaria ligata</i> Mighels.
23	<i>aculeus</i> Stimp.	24	<i>Columbella rosacea</i> Stimp.
23	<i>Mighelsii</i> Stimp.	24	<i>dissimilis</i> Stimp.
23	<i>pelagica</i> Stimp.	24	<i>Mangelia turricula</i> F. & H.
23	<i>Turritella costulata</i> Mighels.	24	<i>pyramidalis</i> Stimp.
23	<i>erosa</i> Couth.	25	<i>cancellata</i> Stimp.
23	<i>acicula</i> Stimp.	25	<i>decussata</i> Stimp.
23	<i>Aporrhais occidentalis</i> Beck.	25	<i>Bulla hiemalis</i> Couth.
23	<i>Scalaria Grœnlandica</i> Gould.	25	<i>triticea</i> Couth.
23	<i>Menestho albula</i> Möll.	25	<i>pertenuis</i> Mighels.
23	<i>Chemnitzia nivea</i> Stimp.	25	<i>debilis</i> Gould.
24	<i>Natica flava</i> Gould.	25	<i>Philine lineolata</i> Stimp.
24	<i>heros</i> Say.	25	<i>Canthopsis Havardiensis</i> Agassiz.
24	<i>triseriata</i> S.		
24	<i>Grœnlandica</i> Beck.	25	<i>Eolis farinacea</i> Gould, MS.
24	<i>immaculata</i> Totten.	25	<i>stellata</i> Stimp. (n. sp.)
24	<i>clausa</i> Brod. & Sowb.	25	<i>purpurea</i> Stimp. (n. sp.)
24	<i>Velutina haliotoides</i> Möll.	26	<i>diversa</i> Couth.
24	<i>zonata</i> Gould.	26	<i>Mananensis</i> Stimp.
24	<i>Lamellaria perspicua</i> Lovén.	26	<i>Doto coronata</i> Lovén.
24	<i>Admete viridula</i> Stimp.	26	<i>Dendronotus arborescens</i> A. & H.
24	<i>Trichotropis borealis</i> Br. &		
24	<i>Purpuralapillus</i> Lam. [Sowb.	26	<i>Ancula sulphurea</i> Stimp.
24	<i>Nassa trivittata</i> S.	26	<i>Doris planulata</i> St. (fig. 14.)
24	<i>Buccinum undatum</i> L.	26	<i>pallida</i> Agassiz.
24	<i>Tritonium Islandicum</i> Lovén.	27	<i>Loligo Bartramii</i> (?) Les.

Prime.—Descriptions of three new species of *Pisidium*: by
 TEMPLE PRIME. (From Annals of the New York Lyceum of
 Natural History, vol. vi. March, 1854.)

Page.	Plate.	Fig.	Name.	Locality.
64	i	1	<i>Pisidium cicor</i> Prime.	Washington Co., N. Y.
65	i	2	<i>contortum</i> Prime.	Pittsfield, Mass.
65	i	3	<i>Noveboracense</i> Prime.	Washington and Her- kimer Counties, N. Y.

Prime.—On the identity of *Cyclas elegans* Adams with *Cyclas*
rhomboidea Say; by TEMPLE PRIME. (From same, p. 66.)

Anthony.—Descriptions of new Fluvial Shells of the Genus
Melania of Lamarek from the Western States of North America:
 by J. G. ANTHONY, Esq. (From same.)

Page.	Plate.	Fig.	Name.	Locality.
83	ii	1	<i>Melania athleta</i> Anthony.	Tennessee.
84	ii	2	<i>viridula</i> Anthony.	Tennessee.
85	ii	3	<i>hastata</i> Anthony.	Alabama.
86	ii	4	<i>iota</i> Anthony.	Ohio?
87	ii	5	<i>altipeta</i> Anthony.	Raccoon creek, Ohio.
88	ii	6	<i>latitans</i> Anthony.	Mammoth cave, Ky.
89	ii	7	<i>vittata</i> Anthony.	Alabama.
90	ii	8	<i>nigrocincta</i> Anthony.	Tennessee.
91	ii	9	<i>subangulata</i> Anthony.	Alabama.
92	ii	10	<i>brunnea</i> Anthony.	Alabama.
93	ii	11	<i>virens</i> Anthony.	Alabama.
93	ii	12	<i>ampla</i> Anthony.	Alabama.
94	ii	13	<i>ambusta</i> Anthony.	Alabama.
95	ii	14	<i>arachnoidea</i> Anthony.	London, Tenn.
97	ii	15	<i>eliminata</i> Anthony.	Owenboro', Ky.
98	ii	16	<i>baculum</i> Anthony.	Tennessee.
99	ii	17	<i>incrassata</i> Anthony.	—?
99	ii	18	<i>excavata</i> Anthony.	Alabama.
100	ii	19	<i>casta</i> Anthony.	Alabama.
101	ii	20	<i>textilosa</i> Anthony.	Georgia.
102	iii	1	<i>curvilabris</i> Anthony.	Tennessee.
103	iii	2	<i>elegantula</i> Anthony.	Kentucky.
104	iii	3	<i>pupoidea</i> Anthony.	Alabama.
105	iii	4	<i>tecta</i> Anthony.	Ohio.
105	iii	5	<i>imbricata</i> Anthony.	Alabama.
106	iii	6	<i>pagodiformis</i> Anthony.	Battle creek, Tenn.
107	iii	7	<i>eximia</i> Anthony.	Tennessee.
108	iii	8	<i>cristata</i> Anthony.	Alabama.
109	iii	9	<i>proscissa</i> Anthony.	Alabama.
110	iii	10	<i>torulosa</i> Anthony.	Tennessee.
111	iii	11	<i>planogyra</i> Anthony.	Alabama.
112	iii	12	<i>gradata</i> Anthony.	Alabama.
113	iii	13	<i>fastigiata</i> Anthony.	Tennessee.
114	iii	14	<i>vicina</i> Anthony.	Alabama.
115	iii	15	<i>pallidula</i> Anthony.	Tennessee.
116	iii	16	<i>rhombica</i> Anthony.	Alabama.
April, 1854.				
117	iii	17	<i>angulata</i> Anthony.	Tennessee.
118	iii	18	<i>tabulata</i> Anthony.	Tennessee.

Page.	Plate.	Fig.	Name.	Locality.
119	iii	19	Melania clara <i>Anthony.</i>	Alabama.
120	iii	20	fusco-cincta <i>Anthony.</i>	Alabama.
121	iii	21	plena <i>Anthony.</i>	Alabama.
122	iii	22	compacta <i>Anthony.</i>	Alabama.
123	iii	23	glans <i>Anthony.</i>	Tennessee.
123	iii	24	planospira <i>Anthony.</i>	Tennessee.
124	iii	25	undosa <i>Anthony.</i>	Nolen river, Ky.
125	iii	26	consanguinea <i>Anthony.</i>	Indiana.
126	iii	27	coronilla <i>Anthony.</i>	Tennessee.
127	iii	28	corpulenta <i>Anthony.</i>	Alabama.
128	iii	29	neglecta <i>Anthony.</i>	Dayton, Ohio.
129	i	5	gracilior <i>Anthony.</i>	Stark, Co., Ohio.
<i>M. gracilis</i> <i>Anthony</i> , preoc.				

Redfield.—Descriptions of new species of Shells: by JOHN H. REDFIELD. (From same, April, 1854.)

Pa.	Pl.	Fig.	Name.	Locality.
130	i	6	Anculosa <i>Anthony</i> <i>Budd MS.</i>	Holston riv., Knoxville, Ten.

Anthony.—Descriptions of new species of *Ancylus* and *Anculosa* from the Western States of North America: by JOHN G. ANTHONY. (From same, October, 1855.)

Page.	Plate.	Fig.	Name.	Locality.
158	v	20-21	Ancylus elatior <i>Anthony.</i>	Green river, Ky.
158	v	22-23	Anculosa ampla <i>Anthony.</i>	Alabama.

Redfield.—Descriptions of two new species of North American *Helicidæ*: by JOHN H. REDFIELD. (From same, Dec., 1856.)

Page.	Plate.	Fig.	Name.	Locality.
170	ix	8-10	Helix Elliotti <i>Redfield.</i>	Georgia and N. C.
171	ix	4-7	barbigera <i>Redfield.</i>	Habersham Co., Ga.

Wailes.—Catalogue of Mollusca; by B. L. C. WAILES. (From Geological Report of Mississippi, 1854.)

Page		Page.	
338	Unio anodontoides.	338	Unio circulus.
338	asperrimus.	338	globosus.
338	cylindricus.	338	glans.

Page		Page	
338	<i>Unio hydranus.</i>	338	<i>Unio rectus.</i>
338	<i>heros.</i>	338	<i>siliquoides.</i>
338	<i>inflata.</i>	338	<i>subovatus.</i>
338	<i>lens.</i>	338	<i>trapezoides.</i>
338	<i>Mississippiensis.</i>	338	<i>trigonius.</i>
338	<i>multiplicatus.</i>	338	<i>tuberculatus.</i>
338	<i>nodiferus.</i>	338	<i>Anodonta grandis.</i>
338	<i>nobilis.</i>	338	<i>plana.</i>
338	<i>nasutus.</i>	338	<i>suborbiculatus.</i>
338	<i>nodulatus.</i>	338	<i>decora.</i>
338	<i>obesus.</i>	338	<i>Stewartiana.</i>
338	<i>plicatus.</i>	339	<i>Helix alternata.</i>
338	<i>perplicatus.</i>	339	<i>auriculata.</i>
338	<i>porrectus.</i>	339	<i>fraterna.</i>
338	<i>purpuratus.</i>	339	<i>hirsuta.</i>
338	<i>pustulosus.</i>	339	<i>interna.</i>
338	<i>pustulatus.</i>	339	<i>pulchella.</i>
338	<i>quadrulus.</i>	339	<i>tridentata.</i>

Bland.—Descriptions of two new species of North American Helicidæ: by THOMAS BLAND. (From Annals N. Y. Lyceum, February, 1858.) And, Remarks on certain species of North American Helicidæ.

[These papers are also printed in pamphlet form, with the title of "Remarks on certain species of North American Helicidæ, with descriptions of new species." New York: H. Baillière. The original work and pamphlet are both quoted. The numbering of the plate is the same in each.]

February, 1858.

ANNALS.				REMARKS.		Name.
Vol.	Page.	Pl.	Fig.	Pt.	Page.	
vi	277	ix	14-16	1	1	<i>Helix Edwardsi</i> Bland. Fayette or Green Briar Co., Va.
vi	279	ix	11-13	1	3	<i>sculptilis</i> Bland. Anantehely Mountains, N. C.
vi	283	ix	17-20	1	7	<i>fatigiata</i> Say. <i>H. Dorfeuilliana</i> Desh. <i>Texasiana</i> Desh.
vi	288	ix	21-23	1	12	<i>Troostiana</i> Lea. <i>H. fatigiata</i> Binney. <i>plicata</i> Binney. <i>Polygyra Troostiana</i> Lea.

ANNALS.				REMARKS.		Name.
Vol.	Page.	Pl.	Fig.	Pt.	Page.	
vi	291	ix	27-30	1	15	Helix Hazardi Bland. <i>Polygyra plicata</i> Say. <i>Troostiana</i> W. G. Binney <i>H. Texasiana</i> Pfr. <i>Dorfeuilliana</i> Desh. <i>fatigiata</i> Binney.
vi	294	ix	24-26	1	18	Dorfeuilliana Lea. <i>Polygyra Dorfeuilliana</i> Lea. <i>H. fatigiata</i> Binney.
vi	299			1	23	Pennsylvanica Green. <i>H. Mitchelliana</i> Desh.

September, 1858.

ANNALS.				REMARKS.		Name.	Locality
Vol.	Page.			Pt.	Page.		
vi	336			1	27	Helix clausa Say. <i>H. Pennsylvanica</i> Pfr. <i>Mitchelliana</i> Chemn.	
vi	339			1	29	Mitchelliana Lea. <i>H. clausa</i> De Kay.	
vi	341			1	31	jejuna Say. <i>H. Mobiliana</i> Lea.	
vi	344			1	34	porcina Say (with a fig.) <i>H. hirsuta</i> Binney. <i>inflecta</i> ?	
vi	346			1	36	pustula Fer. (with a fig.) <i>H. leporina</i> W. G. Binney.	
vi	348			1	39	leporina Gould. <i>H. pustula</i> Pfr. (var.)	
vi	350			1	40	pustuloides Bland. <i>H. pustula</i> Binney, non Fer.	
vi	352			1	42	glaphyra Say (with a fig.)	
vi	358			1	49	albolabris Say. <i>H. major</i> Binney.	

December, 1858.

vii	26	2	55	Helix auriculata Say (fig.)	St. Augustine, Florida
vii	30	2	59	avara Say (with a fig.)	St. John's river, Fla.
vii	34	2	63	uvulifera Shuttl. (fig.)	Corpus Christi.
				<i>H. florulifera</i> Reeve.	
vii	35	2	64	Postelliana Bland (fig.)	Ga., various localities
vii	37	2	66	auriformis Bland (fig.)	Ga., Texas, Alabama.
				<i>H. auriculata</i> Binney. <i>avara</i> Reeve.	

Trask.—Proceedings of the California Academy of Natural Sciences, vol. i. San Francisco. Dr. J. B. TRASK. (Feb. 1855.)
Descriptions of—

Page.	Name.	Locality.
28	<i>Anodonta Randallii</i> Trask.	Upper San Joaquin.
29	<i>triangularis</i> Trask.	Sacramento river.
29	<i>rotundovata</i> Trask.	Sacramento valley.
30	<i>Alasmodonta Yubaensis</i> Trask.	Yuba river.

Holmes.—Description of a new species of *Ostrea* found living in the waters of the Coast of South Carolina: by FRANCIS S. HOLMES. (Proc. of Elliott Soc. of Nat. Hist. of Charleston, S. C., vol. i. p. 29. June, 1856.)

Page.	Name.	Locality.
29	<i>Ostrea triangularis</i> Holmes.	Edisto river.

Chickering.—List of Marine, Fresh-water, and Land Shells found in the vicinity of Portland, Maine: by J. W. CHICKERING, Jr.

[No date, but published in 1855 or 1856.—W. G. B.]

No.	MARINE SHELLS.	No.	
3	<i>Anomia aculeata</i> Gmelin.	26	<i>Chiton albus</i> Mont.
4	<i>ephippium</i> Linn.	27	<i>Emersonii</i> Couth.
5	<i>Astarte castanea</i> Say.	28	<i>fulminatus</i> Couth.
6	<i>quadrans</i> Gould.	29	<i>ruber</i> Lowe.
7	<i>undata</i> Gould.	30	<i>Cingula aculeus</i> Gould.
13	<i>Buccinum obsoletum</i> Say.	31	<i>arenaria</i> Mont.
14	<i>plicosum</i> Menke.	32	<i>latior</i> Mighels.
15	<i>rosaceum</i> Gould.	33	<i>minuta</i> Totten.
16	<i>trivittatum</i> Say.	34	<i>semicostata</i> Mont.
17	<i>undatum</i> Linn.	35	<i>Cochlodesma Leana</i> Conrad.
18	<i>Bulla debilis</i> Gould.	36	<i>Crepidula fornicata</i> Linn.
19	<i>pertenuis</i> Mighels.	37	<i>plana</i> Say.
20	<i>triticea</i> Couth.	38	<i>Cyprina Islandica</i> Linn.
21	<i>Calyptræa striata</i> Say.	39	<i>Dentalium entale</i> Linn.
22	<i>Cardita borealis</i> Conrad.	40	<i>Fusus bamffius</i> Flem.
23	<i>Cardium Islandicum</i> Linn.	41	<i>decemcostatus</i> Say.
24	<i>pinnulatum</i> Conrad.	42	<i>pygmaeus</i> Gould.
25	<i>Cemoria Noachina</i> Linn.	43	<i>rufus</i> Mont.
		44	<i>turriculus</i> A.

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|-----|------------------------------------|-----|------------------------------------|
| No. | | No. | |
| 45 | <i>Lacuna neritoidea</i> Gould. | 91 | <i>Purpura lapillus</i> Linn. |
| 46 | <i>fusca</i> Gould. | 92 | <i>Sanguinolaria fusca</i> Say. |
| 47 | <i>vincta</i> Mont. | 93 | <i>Saxicava distorta</i> Linn. |
| 48 | <i>Littorina palliata</i> Say. | 94 | <i>Scalaria Greenlandica</i> |
| 49 | <i>rudis</i> Don. | | Chemn. |
| 50 | <i>tenebrosa</i> Mont. | 95 | <i>Sigaretus haliotoides</i> Linn. |
| 51 | <i>Lucina flexuosa</i> Mont. | 96 | <i>Skenia serpuloides</i> Mont. |
| 52 | <i>Machera costata</i> Say. | 97 | <i>Solemya borealis</i> Totten. |
| 53 | <i>Mactra gigantea</i> Lam. | 98 | <i>velum</i> Say. |
| 54 | <i>Margarita arctica</i> Leach. | 99 | <i>Solen ensis</i> Linn. |
| 55 | <i>argentata</i> Gould. | 100 | <i>siliqua</i> . |
| 56 | <i>cinerea</i> Couth. | 102 | <i>Terebratula caput-ser-</i> |
| 57 | <i>obscura</i> Couth. | | <i>pentis</i> Linn. |
| 58 | <i>undulata</i> Sowerby. | 103 | <i>Thracia truncata</i> Mighels. |
| 59 | <i>Mesodesma arctata</i> Conrad. | 104 | <i>Trichotropis borealis</i> Sowb. |
| 60 | <i>Modiola discrepans</i> Mont. | 105 | <i>Turritella erosa</i> Couth. |
| 61 | <i>glandula</i> Totten. | 106 | <i>Velutina lævigata</i> Linn. |
| 62 | <i>modiolus</i> Linn. | 107 | <i>zonata</i> Gould. |
| 63 | <i>nexa</i> Gould. | 108 | <i>Venus gemma</i> Totten. |
| 64 | <i>plicatula</i> Lam. | 109 | <i>mercenaria</i> Linn. |
| 65 | <i>Mya arenaria</i> Linn. | | |
| 66 | <i>Mytilus edulis</i> Linn. | | FRESH-WATER SHELLS. |
| 67 | <i>Natica clausa</i> Sowerby. | 110 | <i>Alasmodon arcuata</i> Barnes. |
| 68 | <i>heros</i> Say. | 111 | <i>marginata</i> Say. |
| 69 | <i>immaculata</i> Totten. | 112 | <i>undulata</i> Say. |
| 70 | <i>pusilla</i> Say. | 113 | <i>Amnicola lustrica</i> Say. |
| 71 | <i>triseriata</i> Say. | 114 | <i>porata</i> Say. |
| 72 | <i>Cascoensis</i> Mighels. | 115 | <i>Ancylus rivularis</i> Say. |
| 73 | <i>delphinodonta</i> Mighels. | 116 | <i>tardus</i> Say. |
| 74 | <i>limatula</i> Say. | 117 | <i>Anodon cataracta</i> Say. |
| 75 | <i>minuta</i> Gmelin. | 118 | <i>implicata</i> Say. |
| 76 | <i>myalis</i> Couth. | 119 | <i>marginata</i> Say. |
| 77 | <i>Nucula navicularis</i> Couth. | 120 | <i>Cyclas calyculata</i> Drap. |
| 78 | <i>Portlandica</i> Hitchcock. | 121 | <i>minor</i> Mighels. |
| 79 | <i>proxima</i> Say. | 122 | <i>partumeia</i> Say. |
| 80 | <i>sapotilla</i> Gould. | 123 | <i>similis</i> Say. |
| 81 | <i>tenuis</i> Mont. | 124 | <i>Limnæa columella</i> Say. |
| 82 | <i>thraciæformis</i> Storer. | 125 | <i>decollata</i> Mighels. |
| 83 | <i>Patella alveus</i> Conrad. | 126 | <i>desidiosa</i> Say. |
| 84 | <i>amœna</i> Say. | 127 | <i>humilis</i> Say. |
| 85 | <i>candida</i> Couth. | 128 | <i>Paludina decisa</i> Say. |
| 86 | <i>Pecten Islandicus</i> Müll. | 129 | <i>Physa ancillaria</i> Say. |
| 87 | <i>Magellanicus</i> Gmelin. | 130 | <i>heterostropha</i> Say. |
| 89 | <i>Pleurotoma decussata</i> Couth. | 131 | <i>hypnorum</i> Drap. |
| 90 | <i>violacea</i> Adams. | | |

No.		No.	
132	<i>Planorbis armigerus</i> Say.	146	<i>Helix arborea</i> Say.
133	<i>bicarinatus</i> Say.	147	<i>cellaria</i> .
134	<i>campanulatus</i> Say.	148	<i>electrina</i> Gould.
135	<i>deflectus</i> Say.	149	<i>fraterna</i> Say.
136	<i>exacutus</i> Say.	150	<i>harpa</i> Say.
137	<i>lentus</i> Say.	151	<i>hortensis</i> Mull.
138	<i>parvus</i> Say.	152	<i>labyrinthica</i> Say.
139	<i>trivolvris</i> Say.	153	<i>lineata</i> Say.
140	<i>Unio complanatus</i> Sol.	154	<i>pulchella</i> Mull.
141	<i>ochraceus</i> Say.	155	<i>striatella</i> Auth.
142	<i>radiatus</i> Say.	156	<i>Pupa contracta</i> Say.
		157	<i>curvidens</i> Gould.
		158	<i>Gouldii</i> .
		159	<i>modesta</i> Say.
	LAND SHELLS.	160	<i>Succinea campestris</i> Say.
143	<i>Bulimus lubricus</i> Mull.	161	<i>ovalis</i> Say.
144	<i>Helix albolabris</i> Say.	162	<i>Vittrina pellucida</i> Drap.
145	<i>alternata</i> Say.		

Shaffer.—A complete List of Land and Fresh-water Shells found in the immediate vicinity of Cincinnati, Ohio: by DAVID H. SHAFFER. [No date.]

No.		No.	
1	<i>Unio abruptus</i> Say.	11	<i>Unio cornutus</i> Barnes.
2	<i>U. orbiculatus</i> Hildreth.	12	<i>crassus</i> Say.
3	<i>Æsopus</i> Green.		<i>U. ellipsaria</i> Raf.
	<i>alatus</i> Say.		<i>ellipticus</i> Barnes.
	<i>U. megaptera</i> Raf.		<i>carinatus</i> Barnes.
4	<i>anodontoides</i> (rare) Lea.		<i>ligamentina</i> Lam.
	<i>U. teres</i> Raf.	13	<i>cylindricus</i> Say.
5	<i>catillus</i> (rare) Conrad.		<i>U. naviformis</i> Lam.
	<i>U. coccineus</i> Hildreth.		<i>solenoides</i> Raf.
	<i>Gouldianus</i> (wh'e naere)	14	<i>cuneatus</i> Barnes.
6	<i>cicatricosus</i> Say. [Ward.		<i>U. nigra</i> Raf.
	<i>U. varicosus</i> Lea.	15	<i>dehiscens</i> Say.
7	<i>circulus</i> Lea.		<i>U. oriens</i> Lea.
	<i>U. lens</i> Lea.	16	<i>donaciformis</i> Lea.
	<i>subrotunda</i> Raf.		<i>U. zig-zag</i> Lea.
8	<i>clavus</i> Lam.	17	<i>ebenus</i> Lea.
	<i>U. scalenia</i> Raf.	18	<i>elegans</i> Lea.
	<i>patulus</i> Lea.	19	<i>ellipsis</i> Lea.
9	<i>compressus</i> Lea.	20	<i>flavus</i> Raf.
	<i>Symphonata compressa</i> Lea.		<i>U. rubiginosus</i> Lea.
10	<i>Cooperianus</i> Lea.		<i>trigonis</i> Lea.

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|-----|---|-----|---|
| No. | | No. | |
| 21 | Unio flexuosus (male) Raf.
<i>U. foliatus</i> (female) Hild. | 42 | Unio politus Say.
<i>U. subrotundus</i> Lea. |
| 22 | fragosus Conrad. | 43 | pustulosus Lea.
<i>U. verrucosus albus</i> Hildreth. |
| 23 | gibbosus Barnes.
<i>U. nasutus</i> Lam.
<i>dilatata</i> Raf.
<i>arctior</i> (white naacre) Lea. | 44 | pyramidatus Lea.
<i>U. obliqua</i> Lam. |
| 24 | Hildrethianus Lea. | 45 | rangianus Lea. |
| 25 | glans Lea. | 46 | rectus Lam.
<i>U. praelongus</i> Barnes.
<i>latissima</i> Raf. |
| 26 | gracilis Barnes.
<i>Symphonata gracilis</i> Lea. | 47 | retusus Lam.
<i>U. torsa</i> Raf. |
| 27 | iris Lea.
<i>U. subrostratus</i> Say. | 48 | rugosus Barnes.
<i>U. quadrula</i> Raf.
<i>lachrymosus</i> Lea.
<i>asperimus</i> Lea. |
| 28 | irroratus Lea.
<i>U. stegaria</i> Raf. | 49 | Sayii (rare) Ward. |
| 29 | laevissimus Lea.
<i>Symph. laevissima</i> Lea. | 50 | securis Lea.
<i>U. depressa</i> Raf. |
| 30 | lapillus Say.
<i>U. fabalis</i> Lea. | 51 | siliquoides Barnes.
<i>U. luteolus</i> Lam.
<i>inflatus</i> (fem.) Barnes. |
| 31 | monodontus Say.
<i>U. soleniformis</i> Lea. | 52 | solidus Lea.
<i>U. myteloides</i> Raf. |
| 32 | multiradiatus Lea.
<i>U. fasciola</i> Raf. | 53 | sulcatus (male) Lea. [Say.
<i>U. ridibundus</i> (female, rare) |
| 33 | nodosus Barnes.
<i>U. metenevra</i> Raf. | 54 | triangularis Barnes.
<i>U. formosus</i> (male) Lea.
<i>triqueter</i> Raf. |
| 34 | nodulatus Raf.
<i>U. pustulatus</i> Lea. | 55 | trigonis Lea.
<i>U. rubiginosis</i> (rare) Lea. |
| 35 | ovatus Say. | 56 | tuberculatus Barnes.
<i>U. tuberculosus</i> Valen.
<i>verrucosa</i> Raf. |
| 36 | parvus Barnes. | 57 | undatus Barnes.
<i>U. caridiacea</i> Say.
<i>pyramidatus</i> Lea. |
| 37 | perplexus Lea.
<i>U. gibbosa</i> Raf. | 58 | undulatus Barnes.
<i>U. heros</i> Say.
<i>multiplicatus</i> Lea. |
| 38 | personatus (fem., rare) Say.
<i>U. capillaris</i> (female) Lea.
<i>pileus</i> (male) Lea. | 59 | ventricosus Barnes.
<i>U. cardium</i> Raf.
<i>occidens</i> (female) Lea.
<i>subovatus</i> (male) Lea. |
| 39 | phaseolus Hildreth.
<i>U. planulatus</i> Lea.
<i>camelus</i> Lea. | | |
| 40 | planus Barnes.
<i>U. tenuissimus</i> Lea.
<i>velum</i> (female) Say.
<i>leptodon</i> Raf. | | |
| 41 | plicatus Say.
<i>U. costuta</i> Raf.
<i>raripecta</i> Lam.
<i>undulatus</i> Deshayes. | | |

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| No. | | No. | |
| 60 | Unio verrucosus Barnes.
<i>U. tuberculata</i> Raf.
<i>graniferus</i> Lea. | 25 | Helix lineata (rare) Say. |
| 61 | Alasmodonta calceola Lea.
<i>A. deltoidea</i> Lea. | 26 | <i>minuta</i> Say.
<i>H. pulchella</i> Binney. |
| 62 | complanata Barnes. | 27 | <i>miniuscula</i> Lea. |
| 63 | rugosa Barnes.
<i>A. costata</i> Raf. | 28 | <i>minutissima</i> Lea. |
| 64 | truncata Say. | 29 | <i>multilineata</i> Say. |
| 65 | Anodonta edentula Say.
<i>A. areolata</i> Swainson. | 30 | Michelliana Lea. |
| 66 | Ferussaciana Lea. | 31 | Pennsylvanica Green. |
| 67 | imbecilis Say.
<i>A. incerta</i> Lea. | 32 | <i>perspectiva</i> Say. |
| 68 | pavonia Lea.
<i>A. Wardiana</i> (rare) Lea. | 33 | <i>palliat</i> Say. |
| 69 | plana Lea.
<i>A. decora</i> (young) Lea.
<i>grandis</i> Say. | 34 | <i>profunda</i> Say. |
| | Ancylus rivularis Say. | 35 | <i>runderata</i> Binney.
<i>H. striatella</i> Athony. |
| 1 | Helix albolabris Say. | 36 | <i>solitaria</i> Say. |
| 2 | <i>alternata</i> Say. | 37 | <i>suppressa</i> (rare) Say. |
| 3 | <i>appressa</i> (rare) Say. | 38 | <i>thyroidea</i> Say. |
| 4 | <i>arborea</i> Say. | 39 | <i>tridentata</i> Say. |
| 5 | <i>chersina</i> (rare) Say. | 40 | <i>zaleta</i> Say. |
| 6 | <i>clausa</i> Say. | 1 | Pupa armifera Say. |
| 7 | <i>concava</i> Say. | 2 | <i>exigua</i> Say. |
| 8 | <i>diodonta</i> (rare) Say. | 3 | <i>ovata</i> Say. |
| 9 | <i>elevata</i> Say. | 4 | <i>pentodon</i> Say. |
| 10 | <i>electrina</i> Gould. | 5 | (unknown). |
| 11 | <i>fallax</i> Say. | 1 | Succinea aurea Lea. |
| 12 | <i>fraternâ</i> Say. | 2 | <i>obliqua</i> Say. |
| 13 | <i>fuliginosis</i> (rare) Griffith. | 3 | <i>vermetus</i> Say. |
| 14 | <i>glaphyra</i> (rare) Say. | 1 | Planorbis armigerus Say. |
| 15 | <i>hirsuta</i> Say. | 2 | <i>bicarinatus</i> Say. |
| 16 | <i>indentata</i> Say. | 3 | <i>lens</i> Lea. |
| 17 | <i>inflecta</i> Say. | 4 | <i>lentus</i> Say. |
| 18 | <i>inornata</i> Say. | 5 | <i>parvus</i> Say. |
| 19 | <i>intertexta</i> (rare). | 6 | <i>trivolis</i> Say. |
| 20 | <i>interna</i> Say. | 1 | Cyclostoma lapidaria Say. |
| 21 | <i>labyrinthica</i> Say. | 2 | <i>Cincinnatiensis</i> Carley. |
| 22 | <i>monodon</i> Binney.
<i>H. Leati</i> . | 1 | Physa elliptica Lea. |
| 23 | <i>ligera</i> Say. | 2 | <i>heterostrophâ</i> Say. |
| 24 | <i>limatula</i> (rare). | 3 | <i>aurea</i> Lea. |
| | | 1 | Lymnea desidiosa Say. |
| | | 2 | <i>elodes</i> Say. |
| | | 3 | <i>exilis</i> Lea. |
| | | 1 | Melania canaliculata Say. |
| | | 2 | <i>conica</i> Say. |
| | | 3 | <i>depygis</i> Say. |
| | | 4 | <i>undulata</i> Say. |
| | | 5 | <i>Sayii</i> Wood. |

No.		No.	
6	<i>Melania Virginica</i> Say.	2	<i>Paludina decisa</i> Say.
7	<i>virgata</i> Lea.	3	<i>integra</i> Say.
1	<i>Anculosa costatus</i> Anthony.	4	<i>subcarinata</i> Say.
2	<i>integra</i> Say.	1	<i>Cyclas similis</i> .
3	<i>prærorsa</i> Say. [Clark.	2	<i>rhomboidea</i> .
1	<i>Paludina Cincinnatiensis</i>	3	<i>partumea</i> .

W. G. Binney.—Reports of Explorations and Surveys to ascertain the most practicable and economical Route for a Railroad from the Mississippi River to the Pacific Ocean, made under the direction of the Secretary of War in 1854-5, vol. vi, pp. 111-114. Washington, 1857. Report on the Land Shells collected on the Survey: by W. G. BINNEY.

Page.		Page.	
111	<i>Helix fidelis</i> Gray.	113	<i>Helix æruginosa</i> Gould.
	<i>H. Nuttalliana</i> Lea.	114	<i>Dupetithouarsi</i> Deshayes.
112	<i>infumata</i> Gould.		<i>H. Oregonensis</i> Lea.

Prime.—Notes on some American Species of *Cyclas* described by Lamarck, Say, Rafinesque, and Linsley: by TEMPLE PRIME, LL. B., Member of the Boston Society of Nat. Hist. Part. I, pp. 4. Lamarck and Say. The Hague, 1857.

Page.		Page.	
4	<i>Cyclas sulcata</i> Lam.	4	<i>Cyclas striatula</i> Lam.
	<i>C. Saratogea</i> Lam.		<i>C. edentula</i> Say.
	<i>similis</i> Say.		<i>modesta</i> Prime.
4	<i>Cyclas cornea</i> Lam., No. 2 = <i>C. partumia</i> .		
4	<i>Cyclas cornea</i> Lam., No. 3 = <i>C. rhomboida</i> .		

Haldeman.—The Iconographic Encyclopædia of Science, Literature, and Art, systematically arranged: by J. G. HECK. Translated from the German, with additions, and edited by SPENCER F. BAIRD, A. M., M. D., &c. Vol. ii. N. Y., 1857.

[The division "Mollusca" (p. 49) contains many important notes on American Mollusca by Prof. S. S. HALDEMAN. The pages devoted to the water-breathing fluviatile univalves are of particular interest, p. 83 et seq.]

Page.	
69	<i>Unionidæ</i> . (Copious notes.)
83	<i>Anculosa</i> Say = <i>Leptoxis</i> Raf.

Page.	
84	<i>Melania armigera</i> Say
84	<i>Duttoniana</i> Lea
84	<i>catenoides</i> Lea
	} = <i>Pleurocera</i> Raf.
84	<i>Pleurocera</i> (Io). (Description of animal).
84	<i>Io spinosa</i> Lea = <i>Pleurocera fluviatilis</i> Say.
84	<i>Io tenebrosa</i> Lea = <i>Pleurocera fluviatilis</i> Say.
89	<i>Ampullaria</i> . (Animal described.)
90	<i>Physidae</i> . (Notes.)

Ravenel.—Descriptions of three new species of Univalves, recent and fossil: by E. RAVENEL, M. D. (Proceedings of Elliott Society of Natural History of Charleston, S. C., vol i, p. 281. March, 1858.)

Page.	Name.	Locality.
281	<i>Columbella spirantha</i> Rav.	Wande river, S. C.

Higgins.—A Catalogue of the Shell-bearing species of Mollusca inhabiting the vicinity of Columbus, Ohio—with some Remarks thereon: by FRANK HIGGINS. Sept. 1858. [Without descriptions.]

Page.	No.	Name.	Locality.
4	1	<i>Unio alasmodontinus</i> Barnes.	Scioto river & tributaries.
4	2	<i>alatus</i> Say.	Scioto river.
4	3	<i>Bourneiianus</i> Lea.	Scioto river.
4	4	<i>cuneatus</i> Barnes.	Scioto river.
4	5	<i>coccineus</i> Hild.	Scioto river.
4	6	<i>cicatricosus</i> Say.	Scioto river.
4	7	<i>cylindricus</i> Say.	Scioto river.
4	8	<i>crassus</i> Say.	Scioto river.
4	9	<i>circulus</i> Lea.	Scioto river.
		<i>U. lens</i> Lea (young).	
4	10	<i>clavus</i> Lam.	Scioto river.
		<i>U. patulus</i> Lea (young).	
4	11	<i>cornutus</i> Barnes.	Scioto river.
4	12	<i>donaciformis</i> Lea.	Scioto river.
4	13	<i>elegans</i> Lea.	Scioto river.
4	14	<i>ellipsis</i> Lea.	Scioto river.
4	15	<i>Gouldianus</i> Ward.	Scioto river.
4	16	<i>gibbosus</i> Barnes.	Scioto river.
		var. <i>U. arctior</i> Lea.	
4	17	<i>gracilis</i> Barnes.	Scioto river.

Page.	No.	Name.	Locality.
5	18	<i>Unio irroratus</i> Lea.	Scioto river.
5	19	<i>lappilus</i> Say.	Scioto river.
5	20	<i>multiradiatus</i> Lea.	Scioto river.
5	21	<i>phaselosus</i> Hild. var. <i>U. camelus</i> Lea. <i>planantulus</i> Lea.	Scioto river.
5	22	<i>pustulosus</i> Lea.	Scioto river.
5	23	<i>parvus</i> Barnes.	Scioto river & Ohio canal.
5	24	<i>perplexus</i> Lea.	Scioto river.
5	25	<i>plicatus</i> Say.	Scioto river & Ohio canal.
5	26	<i>Rangianus</i> Lea.	Scioto river.
5	27	<i>rubiginosus</i> Lea.	Scioto river & Ohio canal.
5	28	<i>rectus</i> Lam.	Scioto river.
5	29	<i>siliquoides</i> Barnes.	Scioto river & Ohio canal.
5	30	<i>subrostratus</i> Say.	Scioto river.
5	31	<i>solidus</i> Lea.	Scioto river.
5	32	<i>Sayii</i> Ward.	Scioto river & Ohio canal.
5	33	<i>tuberculatus</i> Barnes.	Scioto river.
5	34	<i>tenuissimus</i> Lea.	Scioto river.
5	35	<i>triangularis</i> Barnes.	Scioto river.
5	36	<i>verrucosus</i> Barnes.	Scioto river.
5	37	<i>ventricosus</i> Barnes. var. <i>U. occidentis</i> Lea. <i>suboratus</i> Lea.	Scioto river.
5	38	<i>Alasmodon ambigua</i> Say.	Scioto river.
5	39	<i>calceola</i> Lea.	Scioto river & Ohio canal.
5	40	<i>truncata</i> Say.	Scioto river.
5	41	<i>rugosa</i> Barnes.	Scioto river & Ohio canal.
5	42	<i>Anodon aerolata</i> Swain.	Scioto river & Ohio canal.
5	43	<i>Buchanensis</i> Lea.	Scioto river & Ohio canal.
5	44	<i>Ferussaciana</i> Lea.	Scioto river & Ohio canal.
5	45	<i>imbecilis</i> Say.	Scioto river & Ohio canal.
5	46	<i>pavonia</i> Lea.	Scioto river.
5	47	<i>plana</i> Lea. <i>A. decora</i> Lea (young).	Scioto river & Ohio canal.
5	48	<i>salmonia</i> Lea.	Scioto river.
5	49	<i>Cyclas edentula</i> Say.	Ohio canal.
5	50	<i>occidentalis</i> Prime.	Swamps.
5	51	<i>partumeia</i> Say.	Swamps.
5	52	<i>solidula</i> Prime.	Scioto river & Ohio canal.
5	53	<i>similis</i> Say.	Scioto river & Ohio canal.
5	54	<i>rhomboides</i> Say.	Ohio canal.
5	55	<i>transversa</i> Say.	Scioto river & Ohio canal.
6	56	<i>Pisidium dubium</i> Say.	Scioto river & Ohio canal.
6	57	<i>compressum</i> Prime.	Ohio canal.

Page.	No.	Name.	Locality.
6	58	<i>Pisidium abditum</i> Hald.	Ohio canal.
6	59	<i>ferruginium</i> Prime.	Ohio canal.
6	60	<i>Limnæ caperata</i> Say.	Swamp ditches.
6	61	<i>desoidosa</i> Say.	Swamp ditches.
6	62	<i>humilis</i> Say.	Scioto riv., Ohio can., &c.
6	63	<i>reflexis</i> Say.	Swamps.
6	64	<i>umbrosus</i> Say.	Swamps.
6	65	—— ?	Swamps.
6	66	<i>Physa anodonta</i> Lea.	Scioto river.
6	67	<i>elongata</i> Say.	Swamp ditches.
6	68	<i>gyrina</i> Say.	Scioto river.
6	69	<i>heterostropha</i> Say.	Scioto riv., Ohio can., &c.
6	70	<i>Planorbis armigerus</i> Say.	Swamp ditches.
6	71	<i>campanulatus</i> Say.	Scioto river.
6	72	<i>bicarinatus</i> Say.	Scioto river & Ohio canal.
6	73	<i>dilitatus</i> Gould.	Swamps.
6	74	<i>parvus</i> Say.	Ohio ca'l, swamp ditches.
6	75	<i>lentus</i> Say.	Scioto river.
6	76	<i>trivolis</i> Say.	Scioto swamps, Ohio ca'l.
6	77	<i>Ancylus tardus</i> Say.	Scioto river & Ohio canal.
6	78	?	Scioto river.
6	79	<i>Paludina decisa</i> Say.	Scioto river & Ohio canal.
6	80	<i>genicula</i> Conrad.	Scioto river & Ohio canal.
6	81	<i>integra</i> Say.	Scioto river & Ohio canal.
		<i>P. heterostropha</i> Kirtland.	
6	82	<i>rufa</i> Hald.	Scioto river & Ohio canal.
6	83	<i>Amnicola limosa</i> Say.	Ohio canal.
6	84	<i>lapidaria</i> Say.	Moist places.
6	85	<i>Sayana</i> Anthony.	Moist places.
7	86	<i>Valvata tricarinata</i> Say.	Ohio canal.
7	87	<i>Melania depygis</i> Say.	Scioto river.
7	88	<i>inornata</i> A thony.	Scioto river & Ohio canal.
7	89	<i>gracilor</i> Anthony.	Scioto river.
7	90	<i>exilis</i> Hald.	Scioto river.
7	91	<i>Kirtlandiana</i> Lea.	Scioto river.
7	92	<i>regularis</i> Lea.	Scioto river.
7	93	<i>pulchella</i> Anthony.	Scioto river.
7	94	<i>Sayii</i> Ward.	Scioto river.
7	95	<i>Anculosa isogonia</i> Say.	Ohio canal.
7	96	<i>Zua lubricus</i> Say.	Rocky places.
7	97	<i>Succinea avara</i> Say.	Moist places.
7	98	<i>ovalis</i> Say.	
7	99	<i>obliqua</i> Say.	
7	100	<i>vermetus</i> Say.	
7	101	<i>Pupa armifera</i> Say.	

Page.	No.	Name.	Locality.
7	102	<i>Pupa contracta</i> Say.	Moist places.
7	103	<i>exigua</i> Say.	Moist places.
7	104	<i>fallax</i> Say.	Rocky places.
7	105	<i>vata</i> Say.	Moist places.
7	106	<i>pentodon</i> Say.	Moist places.
7	107	<i>rupicola</i> Gould.	Moist places.
7	108	<i>Helix albolabris</i> Say.	Dry ridges, rocky pla
7	109	<i>alternata</i> Say.	Dry ridges, &c.
7	110	<i>arborea</i> Say.	Dry woodlands.
7	111	<i>chersina</i> Say.	Moist places.
7	112	<i>clausa</i> Say. var. <i>H. Mitcheliana</i> Lea.	Hill-sides, river bott
7	113	<i>concava</i> Say.	Dry ridges, riv. bott
7	114	<i>electrina</i> Gould.	Moist places.
7	115	<i>fallax</i> Say.	Hill-sides, river bott
7	116	<i>fraterna</i> Say.	Hill-sides, river bott
8	117	<i>fuliginosa</i> Griffith.	Rocky places, &c.
8	118	<i>hirsuta</i> Say.	River bottoms, &c.
8	119	<i>hydrophilla</i> Ingalls.	Swamp prairies.
8	120	<i>inflecta</i> Say.	Hill-sides, river bott
8	121	<i>inornata</i> Say.	
8	122	<i>intertexta</i> Say.	Dry woodlands.
8	123	<i>indentata</i> Say.	Woodlands.
8	124	<i>lineata</i> Say.	Moist woodlands.
8	125	<i>Leail</i> Ward.	Swamp prairies.
8	126	<i>labyrinthica</i> Say.	Moist places.
8	127	<i>liamatula</i> Ward.	Moist woodlands.
8	128	<i>ligera</i> Say. var. <i>H. Wardiana</i> Lea.	Moist woodlands.
8	129	<i>minutissima</i> Lea.	Moist places.
8	130	<i>miniscula</i> Binney.	Moist places.
8	131	<i>monodon</i> Rackett.	Hill-sides.
8	132	<i>multilineata</i> Say.	Swamp prairies.
8	133	<i>palliata</i> Say.	River bottoms.
8	134	<i>perspectiva</i> Say.	Woodlands, dry rid
8	135	<i>profunda</i> Say.	Hill-sides, river bott
8	136	<i>Pennsylvanica</i> Green.	Hill-sides, river bott
8	137	<i>pulchella</i> Muls.	Gardens in the city.
8	138	<i>solitaria</i> Say.	Dry ridges, &c.
8	139	<i>striatella</i> Anthony.	Moist places.
8	140	<i>suppressa</i> Say.	
8	141	<i>tridentata</i> Say.	Rocky places.
8	142	<i>thyroidea</i> Say.	Dry ridges, &c.
8	143	<i>zaleta</i> Say.	Hill-sides, &c.
8	144	<i>Helicina orbiculata</i> Say.	Swamp prairies.

True.—Shells gathered about Salem, Mass., with particular localities designated and remarks on the species: by JOSEPH TRUE. (Proceed. of the Essex Institute, vol. ii, pt. 1. Salem, 1858. [No descriptions are given.]

Page.		Page.	
188	<i>Teredo navalis.</i>	191	<i>Cardium Islandicum.</i>
188	<i>Pholas dactylus.</i>	191	<i>pinnulatum.</i>
188	<i>crispata.</i>	191	<i>Cardita borealis.</i>
189	<i>Solen ensis.</i>	191	<i>Nucula limatula.</i>
189	<i>Machæra costata.</i>	191	<i>myalis.</i>
189	<i>Solemya velum.</i>	191	<i>minuta.</i>
189	<i>borealis.</i>	191	<i>sapotilla.</i>
189	<i>Glycimeris siliqua.</i>	191	<i>tenuis.</i>
189	<i>Mya arenaria.</i>	191	<i>proxima.</i>
189	<i>Pandora trilineata.</i>	191	<i>Unio complanatus.</i>
189	<i>Osteodesma hyalina.</i>	191	<i>radiatus.</i>
189	<i>Cochleodesma Leana.</i>	191	<i>nasutus.</i>
190	<i>Thracia Conradi.</i>	191	<i>Anodon fluviatilis.</i>
190	<i>Mactra solidissima.</i>	191	<i>implicata.</i>
190	<i>lateralis.</i>	191	<i>Mytilus edulis.</i>
190	<i>ovalis.</i>	191	<i>pellucidus.</i>
190	<i>Mesodesma arctata.</i>	192	<i>Modiola modiolus.</i>
190	<i>Montacuta bidentata.</i>	192	<i>plicatula.</i>
190	<i>Kellia rubra.</i>	192	<i>discrepans.</i>
190	<i>Saxicava distorta.</i>	192	<i>glandula.</i>
190	<i>Petricola pholadiformis.</i>	192	<i>Pecten Islandicus.</i>
190	<i>Sanguinolaria fusca.</i>	192	<i>Magellanicus.</i>
190	<i>Tellina tenera.</i>	192	<i>concentricus.</i>
190	<i>Lucina filosa Stimpson.</i>	192	<i>Anomia ephippium.</i>
190	<i>flexuosa.</i>	192	<i>aculeata.</i>
190	<i>Cyclas elegans.</i>	192	<i>squamula.</i>
190	<i>truncata.</i>	192	<i>Terebratula caput-ser-</i>
190	—	<i>pentis.</i>	
190	<i>Pisidium dubium.</i>	192	<i>Chiton fulminatus.</i>
190	<i>pusillum.</i>	192	<i>ruber.</i>
190	<i>minus.</i>	192	<i>albus.</i>
191	<i>Astarte castanea.</i>	192	<i>Emersonianus.</i>
191	<i>sulcata.</i>	192	<i>Lottia testudinalis.</i>
191	<i>quadrans.</i>	192	<i>alveus.</i>
191	<i>Cyprina Islandicus.</i>	192	<i>Dentalium dentale.</i>
191	<i>Cytherea convexa.</i>	192	<i>Cemoria Noachina.</i>
191	<i>Venus mercenaria.</i>	192	<i>Crepidula fornicata.</i>
191	<i>gemma.</i>		(Not finished.)

Say—W. G. Binney.—The Complete Writings of THOMAS SAY on the Conchology of the United States: edited by W. G. BINNEY. New York, 1858.

[Under this title are collected all the descriptions and figures of recent shells published by Mr. Say. In the following tables reference is given to the original publications and to the reprint.—W. G. B.]

Say.—1. The article "Conchology," (From the American edition of Nicholson's Encyclopedia of Arts and Sciences, vol. ii. First edition. Philadelphia, 1816.)

[There is no paging. I am indebted to the kindness of Mr. S. Hanley for the date and references to this edition. I have never been able to obtain access to a copy of it, though I have searched for it in all the principal libraries of Boston, New York, and Philadelphia. The second and third editions are common. The original manuscript is preserved in the library of the Philadelphia Academy of Natural Sciences. This paper was also distributed separately with a distinct title-page, "Descriptions of Land and Fresh-water Shells of the United States."—W. G. B.]

NICH. ED.		BINNEY'S ED.		Name.	Locality.
Pl.	Fig.	Pl.	Fig.		
i	1	5	lxix	1 <i>Helix albolabris</i> Say.	
iv	4	5	lxxii	4 <i>arborea</i> Say.	
ii	1	6	lxx	1 <i>tridentata</i> Say.	Middle States.
i	2	6	lxix	2 <i>alternata</i> Say.	
i	3	6	lxix	3 <i>glaphyra</i> Say.	Mr. Ord's garden, Phila.
i	7	47	lxix	7 <i>Limnæa subcarinata</i> Say.	
ii	4	47	lxx	4 <i>virginica</i> Say.	
ii	5	48	lxx	5 <i>vivipara</i> Say.	Lakes.
				<i>Helix vivipara.</i>	
ii	6	49	lxx	6 <i>decisa</i> Say.	
ii	3	45	lxx	3 <i>catascopium</i> Say.	Delaware river, &c.
		46		<i>jugularis</i> Say.	
i	6	46	lxix	6 <i>heterostropha</i> Say.	
ii	2	44	lxx	2 <i>Planorbis trivolvus</i> Say.	Lake Erie.
i	4	44	lxix	4 <i>bicarinatus</i> Say.	
i	5	45	lxix	5 <i>parvus</i> Say.	Delaware river.
iv	5	7	lxxii	5 <i>Odostomia corticaria</i> Say.	
i	8	49	lxix	8 <i>Unio crassus</i> Say.	Ohio, &c.
		50		<i>pilcatus</i> Say.	Lake Erie.
iii	1	50	lxxi	1 <i>purpureus</i> Say.	Delaware river, &c.
		50		<i>ovatus</i> Say.	Ohio, &c.
iii	2	51	lxxi	2 <i>cariosus</i> Say.	Delaware & Schuylkill.

NICH. ED.		BINNEY'S ED.		Name.	Locality.
Pl.	Fig.	Pl.	Fig.		
ii	8	51	lxx	8 <i>Unio ochraceus</i> Say.	Delaware & Schuylkill.
iv	1	52	lxxii	1 <i>nasutus</i> Say.	Delaware & Schuylkill.
iv	2	52	lxxii	2 <i>alatus</i> Say.	Lake Erie.
iv	3	52	lxxii	3 <i>cylindricus</i> Say.	Wabash river.
iii	3	53	lxxi	3 <i>undulatus</i> Say =	Delaware & Schuylkill.
				<i>Monodonta</i> Say (n. g.)	
iii	4	53	lxxi	4 <i>Anodonta cataracta</i> Say.	
iii	5	53	lxxi	5 <i>marginata</i> Say.	
iii	6	54	lxxi	6 <i>undulata</i> Say.	
i	9	54	lxix	9 <i>Cyclas similis</i> Say.	Delaware.
i	10	55	lxix	10 <i>dubia</i> Say.	Delaware.

Say.—2. The second edition of the same (vol. iv, 1818) contains the article "Conchology." The references to the plates and localities, being the same as in the first edition, are not repeated. The pages are not numbered.

P. of repr.		P. of repr.	
5	<i>Helix albolabris</i> Say.	7	<i>Odostomia corticaria</i> Say.
5	<i>thyroidus</i> Say.	49	<i>Unio crassus</i> Say.
5	<i>arboreus</i> Say.	50	<i>plicatus</i> Say.
6	<i>tridentata</i> Say.	50	<i>purpureus</i> Say.
6	<i>alternata</i> Say.	50	<i>ovatus</i> Say.
	<i>H. radiata</i> Omel.	51	<i>cariosus</i> Say.
	<i>Cochlea umbilicata</i> , &c.		<i>Musculus latior</i> , &c. List.
7	<i>glaphyra</i> Say. [Lister.	51	<i>ochraceus</i> Say.
44	<i>Planorbis trivolvis</i> Say.	52	<i>nasutus</i> Say.
	<i>Cochlea trium orbium</i> , &c.		<i>Musculus fuscus</i> , &c. List.
	Lister.	52	<i>alatus</i> Say.
44	<i>bicarinatus</i> Say.	52	<i>cylindricus</i> Say.
45	<i>parvus</i> Say.	53	<i>Monodonta</i> Say (n. g.)
45	<i>Lymnæa catascopium</i> Say.	53	<i>undulatus</i> Say.
46	<i>jugularis</i> Say.	53	<i>Anodonta cataracta</i> Say.
46	<i>heterostrophæ</i> Say.	53	<i>marginata</i> Say.
47	<i>subcarinata</i> Say.	53	<i>undulata</i> Say.
47	<i>virginica</i> Say.	54	<i>Cyclas similis</i> Say.
48	<i>vivipara</i> Linn.	55	<i>dubia</i> Say.
49	<i>decisa</i> Say.		

Say.—3. The third edition of the same, published in Philadelphia 1819 (vol. iv.), has the following species in addition to those contained in the second edition. A few generic names have been changed, the species being in these cases repeated below.

P. of repr.	Name.	Locality.
7	<i>Helix labyrinthica</i> Say.	
7	<i>hirsuta</i> Say.	
7	<i>perspectiva</i> Say.	Lake Erie.
7	<i>lineata</i> Say.	Philadelphia.
7	<i>Polygyra</i> Say (n. g.)	
7	<i>auriculata</i> Say.	Florida.
7	<i>avara</i> Say.	Florida.
7	<i>septemvolva</i> Say.	Georgia and Florida.
7	<i>Oligyra</i> Say (n. g.)	
7	<i>orbiculata</i> Say.	East Florida.
56	<i>Planorbis glabratus</i> Say.	South Carolina.
56	<i>Limnæa columella</i> Say.	
7	<i>Succinea campestris</i> Say.	Georgia and Florida.
7	<i>ovalis</i> Say.	
56	<i>Cyclostoma tricarinata</i> Say.	Delaware river.
56	<i>Ancylus rivularis</i> Say.	
56	<i>Paludina limosa</i> Say.	Delaware and Schuylkill.
56	<i>lapidaria</i> Say.	
47	<i>subcarinata</i> Say.	
	(<i>Lymnæa</i> , 1st edition.)	
47	<i>virginica</i> Say.	Lakes.
	(<i>Lymnæa</i> , 1st edition.)	
48	<i>vivipara</i> Linn.	
	(<i>Lymnæa</i> , 1st edition.)	
48	<i>dissimilis</i> Say.	Pennsylvania.
49	<i>decisa</i> Say.	
	(<i>Lymnæa</i> , 1st edition.)	
7	<i>Pupa corticaria</i> Say.	
	(<i>Odostomia</i> Say, 1st edition.)	
7	<i>Polyphemus glans</i> Say.	
56	<i>Alasmodonta</i> Say (n. g.)	
	(<i>Monodonta</i> Say, 1st edition.)	
56	<i>marginata</i> Say.	
53	<i>undulata</i> Say.	
	<i>Monodonta undulata</i> Say, 1st ed.	
56	<i>Cyrena Carolinensis</i> Bosc.	Georgia, S. C., Florida.
	<i>Cyclas Carolinensis</i> Bosc.	

Say.—4. On the Genus *Ocythoë*: being an extract of a letter from THOS. SAY, Esq., of Philadelphia, to WM. ELFORD LEACH, M. D., F. R. S. (From the Philosophical Transactions of the Royal Society, 1819, p. 107.)

P. of repr.	Name.	Locality.
56	<i>Ocythoë punctata Say.</i>	Atlantic ocean, near N. A. coast.

Say.—5. Numerous Articles from the Journal of the Academy of Natural Sciences of Philadelphia.

Vol. I. May, 1817.—Description of seven species of American Fresh Water and Land Shells, not noticed in the systems.

Page of Jour.	Page of reprint.	Name.	Locality.
13	59	<i>Cyclostoma tricarinata Say.</i>	Delaware river.
13	59	<i>lapidaria Say.</i>	
14	60	<i>Lymnæa columella Say.</i>	
15	8	<i>Succinea ovalis Say.</i>	

June, 1817.—The same concluded.

17	8	<i>Helix hirsuta Say.</i>	
18	9	<i>perspectiva Say.</i>	Lake Erie.
18	9	<i>lineata Say.</i>	Philadelphia.

October, 1817.—Descriptions of new species of Land and Fresh Water Shells of the United States.

123	9	<i>Helix thyroidus Say.</i>	
123	10	<i>minuta Say.</i>	
124	10	<i>labyrinthica Say.</i>	
125	60	<i>Ancylus rivularis Say.</i>	
125	61	<i>Paludina limosa Say.</i>	Del. and Schuyl. rivs.

June, 1818.—Account of two new genera, and several new species, of Fresh Water and Land Shells.

276	10	<i>Polygyra Say (n. g.)</i>	
277	10	<i>auriculata Say.</i>	Florida.
277	11	<i>avara Say.</i>	Florida.
278	11	<i>septemvolva Say.</i>	Florida and Georgia.
280	61	<i>Planorbis glabratus Say.</i>	South Carolina.
281	12	<i>Succinea campestris Say.</i>	East Florida.
282	13	<i>Polyphemus glans Brug.</i>	Louisiana to Georgia.
283	13	<i>Olygyra Say (n. g.)</i>	
283	13	<i>orbiculata Say.</i>	East Florida.
	17		

December, 1818.—Description of a new genus of Fresh Water Bivalve Shells.

Page of Jour.	Page of reprint.	Name.	Locality.
459	62	Alasmodonta Say.	
		(<i>Monodonta</i> Say, preoc.)	
459	62	marginata Say.	Scioto river.
	62	undulata Say (<i>Monodonta</i> .)	

Vol. II. January, 1821.—Descriptions of Univalve Shells of United States.

150	15	Helix multilineata Say.	Illinois and Missouri.
151	15	appressa Say.	Ohio and Missouri.
152	16	palliata Say.	Illinois and Ohio.
153	16	inflecta Say.	Lower Missouri.
154	17	clausa Say.	Illinois.
154	17	obstricta Say.	Ohio.
154	17	elevata Say.	Ohio.
155	18	interna Say.	Lower Missouri.
156	18	chersina Say.	Sea islands of Georgia.
156	18	gularis Say.	Ohio, Pennsylvania.
157	19	ligera Say.	Missouri.
157	19	solitaria Say.	Lower Missouri.
158	19	jejuna Say.	Southern States.
159	20	concava Say.	Illinois and Missouri.
159	20	dealbata Say.	Missouri and Alabama.
160	20	profunda Say.	B'ks of Ohio, Miss.
161	21	albolabris Say.	Council Bluff.
161	21	thyroidus Say.	B'ks of Ohio, Mo.,
161	21	alternata Say.	B'ks of Ohio, Mo.,
161	21	hirsuta Say.	Council Bluff.
161	21	labyrinthica Say.	Council Bluff.
161	21	minuta Say.	Council Bluff.
161	21	perspectiva Say.	Banks of Missouri.
161	21	Polygyra plicata Say.	Alabama.
162	21	Pupa armifera Say.	Upper Missouri.
163	22	rupicola Say.	East Florida.
163	22	Succinea ovalis Say.	Missouri.
164	63	Planorbis armigerus Say.	Upper Missouri.
164	63	trivolvus Say.	Council Bluff.
164	63	bicarinatus Say.	Council Bluff.
164	63	parvus Say.	Council Bluff.
164	63	parallelus Say.	Upper Missouri.
165	64	exacuous Say.	Lake Champlain.
166	64	campanulatus Say.	Lake Cayuga.

Page of Jour.	Page of reprint.	Name.	Locality.
167	65	<i>Lymneus elongatus Say.</i>	Upper Missouri.
167	65	<i>columellus Say.</i>	Cold-water creek, Mo.
167	65	<i>reflexus Say.</i>	Lakes Erie & Superior.
168	66	<i>appressus Say.</i>	Lake Superior.
169	66	<i>elodes Say.</i>	Canandaigua lake, &c.
169	66	<i>desidiosus Say.</i>	Cayuga lake.
170	67	<i>macrostomus Say.</i>	Cayuga lake.
170	67	<i>emarginatus Say.</i>	Maine.
171	67	<i>Physa gyrina Say.</i>	Missouri.
171	68	<i>elongata Say.</i>	Illinois.
172	68	<i>heterostropha Say.</i>	Council Bluff.
172	68	<i>Cyclostoma marginata Say.</i>	Upper Missouri.
173	68	<i>Valvata tricarinata Say.</i>	Council Bluff.
173	68	<i>Paludina ponderosa Say.</i>	Ohio river.
174	69	<i>integra Say.</i>	Missouri.
174	69	<i>porata Say.</i>	Cayuga lake.
175	69	<i>lustrica Say.</i>	Cayuga lake.
175	69	<i>Melania canaliculata Say.</i>	Ohio river.
176	70	<i>elevata Say.</i>	Ohio river.
176	70	<i>conica Say.</i>	Ohio river.
177	70	<i>prærosa Say = Anculotus</i> (n. g.)	Ohio river.
178	71	<i>armigera Say.</i>	Ohio river.
178	71	<i>Bulla fluviatilis Say.</i>	Delaware river.

June, 1822.—An account of some of the Marine Shells of the United States, p. 221.

73	73	<i>Patella amœna Say.</i>	New England.
74	73	<i>Fissurella alternata Say.</i>	Maryland, &c.
75	73	<i>Crepidula fornicata.</i>	
75	74	<i>depressa Say.</i>	Southern coast.
76	74	<i>glauca Say.</i>	
76	74	<i>plana Say.</i>	New Jersey to Florida.
77	74	<i>intorta (var.?) Say.</i>	Southern coast.
77	75	<i>convexa Say.</i>	
78	75	<i>Oliva mutica Say.</i>	Southern coast.
79	75	<i>Buccinum ornatum Say.</i>	East Florida.
79	76	<i>Columbella avara Say.</i>	Maryland and south.
79	77	<i>Nassa vibex Say.</i>	Southern and middle.
79	77	<i>trivittata Say.</i>	Southern and middle.
79	77	<i>obsoleta Say.</i>	
79	78	<i>acuta Say.</i>	Southern coast.
79	79	<i>Cerithium dislocatum Say.</i>	Maryland to Florida.
79	79	<i>Fusus cinereus Say.</i>	Maryland and N. J.
80	80	<i>Ranella caudata Say.</i>	

Page of Jour.	Page of reprint.	Name.	Locality.
237	80	<i>Fulgur pyruloides Say.</i>	Southern coast.
238	81	<i>Pyrula papyratia Say.</i>	Ga., E. Fla., W. Ind
239	81	<i>Turbo irroratus Say.</i>	New Jersey to Flor
240	81	<i>canaliculatus Say.</i>	Southern coast.
240	82	<i>palliatum Say.</i>	New England.
241	82	<i>obligatum Say.</i>	Portland, Maine.
241	82	<i>vestitum Say.</i>	Maine.
242	83	<i>Scalaria lineata Say.</i>	Southern coast.
243	83	<i>Turritella alternata Say.</i>	
244	84	<i>impressa Say.</i>	Maryland.
244	84	<i>Turritella bisuturalis Say.</i>	Boston.
245	84	<i>Bulla solitaria Say.</i>	Southern coast.
246	84	<i>Melampus bidentatus Say.</i>	East Florida.
246	85	<i>var. lineatus Say.</i>	
247	85	<i>Natica duplicata Say.</i>	
		<i>N. rugosa Say, olim.</i>	
248	86	<i>heros Say.</i>	New Jersey.
257	87	<i>pusilla Say.</i>	Southern coast.
257	87	<i>Theodoxus reclinatus Say.</i>	East Florida.
258	88	<i>Ostrea semicylindrica Say.</i>	Georgia and Florid
259	88	<i>Pecten concentricus Say.</i>	N. Jersey, N. Engl
260	89	<i>var. borealis Say.</i>	New England.
260	89	<i>dislocatus Say.</i>	Southern coast.
261	89	<i>Pandora trilineata Say.</i>	S'n and middle co
262	90	<i>Avicula hirundo Say.</i>	S'n coast, W. Indi
263	90	<i>Mytilus cubitus Say.</i>	
264	91	<i>lateralis Say.</i>	Southern coast.
265	91	<i>hamatus Say.</i>	Gulf of Mexico.
265	91	<i>Modiola Americana Leach (var.)</i>	Southern coast.
266	92	<i>castanea Say.</i>	Southern coast.
267	92	<i>Arca ponderosa Say.</i>	Southern coast.
268	93	<i>pexata Say.</i>	
268	93	<i>incongrua Say.</i>	
269	93	<i>transversa Say.</i>	
270	94	<i>Nucula proxima Say.</i>	Southern coast.
271	94	<i>Venus notata Say.</i>	N. England to Geor
271	95	<i>præparca Say.</i>	
272	95	<i>elevata Say.</i>	Southern coast.
273	95	<i>inequalis Say.</i>	Middle coast.
273	96	<i>castanea Say.</i>	New Jersey.
274	96	<i>Cytherea occulta Say.</i>	Southern coast.
275	96	<i>Tellina alternata Say.</i>	Georgia and Florid
276	97	<i>polita Say.</i>	Southern coast.
302	98	<i>Iris Say.</i>	Southern coast.

Page of Jour.	Page of reprint.	Name.	Locality.
303	98	<i>Tellina flexuosa Say.</i>	Southern coast.
303	98	<i>tenera Say.</i>	New Jersey.
304	99	<i>Psammobia? lusoria Say.</i>	Southern States.
305	99	<i>Donax variabilis Say.</i>	Georgia and Florida.
306	99	<i>fossor Say.</i>	N. J. and Maryland.
307	100	<i>Amphidesma orbiculata Say.</i>	Georgia.
307	100	<i>æqualis Say.</i>	Southern coast.
308	101	<i>punctata Say.</i>	Southern coast.
309	101	<i>Mactra similis Say.</i>	New Jersey, &c.
309	101	<i>lateralis Say.</i>	Whole coast.
310	102	<i>oblonga Say.</i>	Georgia.
310	102	<i>Lutraria lineata Say.</i>	Georgia and Florida.
311	102	<i>canaliculata Say.</i>	Maryland to Florida.
312	103	<i>Corbula contracta Say.</i>	Georgia and Florida.
313	103	<i>Mya acuta Say.</i>	Southern coast.
313	103	<i>mercenaria Say.</i>	
314	104	<i>Anatina papyratia Say.</i>	Southern coast.
315	104	<i>Solen costatus Say.</i>	New Jersey.
316	104	<i>centralis Say.</i>	Southern coast.
316	105	<i>viridis Say.</i>	Southern coast.
317	105	<i>Solemya velum Say.</i>	Southern coast.
318	106	<i>Saxicava distorta Say.</i>	Southern coast.
319	106	<i>Petricola fornicata Say.</i>	
320	107	<i>Pholas oblongata Say.</i>	Georgia to Florida.
321	107	<i>truncata Say.</i>	Southern coast.
322	108	<i>cuneiformis Say.</i>	Southern coast.

December, 1822.—Descriptions of Univalve, Terrestrial, and Flu-
viatile Shells of the United States.

370	23	<i>Helix irrorata Say.</i>	Northumberland Co., Pa.
371	24	<i>inornata Say.</i>	Pennsylvania.
372	24	<i>indentata Say.</i>	Pennsylvania, N. J.
373	24	<i>lineata Say.</i>	Near Philadelphia.
373	25	<i>Bulimus multilatus Say.</i>	South Carolina.
374	25	<i>Pupa contracta Say.</i>	Virginia.
375	26	<i>exigua Say.</i>	Harrowgate.
375	26	<i>Vertigo ovata Say.</i>	Harrowgate.
376	27	<i>pentodon Say.</i>	Pennsylvania.
377	27	<i>Melampus obliquus Say.</i>	South Carolina.
378	110	<i>Lymneus humilis Say.</i>	S. C. and Oswego.
378	110	<i>Paludina grana Say.</i>	Pennsylvania.
379	111	<i>Melania catenaria Say.</i>	South Carolina.
380	111	<i>multilineata Say.</i>	Delaware.
380	111	<i>Cyclas rhomboida Say.</i>	Lake Champlain.
		<i>partumeia Say.</i>	Germany.

Page of Jour.	Page of reprint.	Name.	Locality.
215	124	<i>Patella alternata Say.</i>	East Florida.
216	124	<i>Calyptrea (Dispotæa) striata Say.</i>	New Jersey.
216	124	<i>Venericardia tridentata Say.</i>	South Carolina.
218	125	<i>Tellina intastriata Say.</i>	Florida.
218	126	<i>lateralis Say.</i>	
219	126	<i>decora Say.</i>	Florida.
219	126	<i>Psammobia fusca Say.</i>	Georgia.
220	127	<i>Amphidesma radiata Say.</i>	Georgia and Florida.
221	127	<i>lepada Say.</i>	South Carolina.

Say.—6. Narrative of an Expedition to the Source of the St. Peter's River, &c. &c., under the command of Major STEPHEN H. LONG, vol. ii, Appendix. 1824.

LONG'S EXP.			REPRINT.			Name.	Locality.
Pa.	Pl.	Fig.	Pa.	Pl.	Fig.		
256	xv	1	29	lxxiv	1	<i>Helix harpa Say.</i>	N. W. Territory.
257	xv	2	30	lxxiv	2	<i>porcina Say.</i>	N. W. Territory.
257	xv	3	30	lxxiv	3	<i>fraterna Say.</i>	Pennsylvania.
257	xv	4	30	lxxiv	4	<i>diodonta Say.</i>	New York.
258			31			<i>perspectiva Say.</i>	N. W. Territory.
258			31			<i>arborea Say.</i>	N. W. Territory.
258			31			<i>chersina Say.</i>	N. W. Territory.
258			31			<i>albolabris Say.</i>	Lake Superior.
258			31			<i>alternata Say.</i>	Lake Superior.
258			31			<i>thyroidus Say.</i>	Niagara Falls.
258			31			<i>ligera Say.</i>	N. W. Territory.
259			31			<i>Vitrina pellucida Mull.</i>	Lake Superior.
259	xv	5	32	lxxiv	5	<i>Bulimus lubricus Say.</i>	N. W. Territory.
260	xv	6	32	lxxiv	6	<i>Pupa modesta Say.</i>	N. W. Territory.
260	xv	7	32	lxxiv	7	<i>Succinea avara Say.</i>	N. W. Territory.
261	xv	8	128	lxxiv	8	<i>obliqua Say.</i>	Niagara Falls.
262	xv	9	128	lxxiv	9	<i>Planorbis deflectus Say.</i>	N. W. Territory.
262			129			<i>corpulentus Say.</i>	N. W. Territory.
262			129			<i>campanulatus Say.</i>	Niagara Falls.
262			129			<i>trivolis Say.</i>	N. W. Ter., Nia. F.
263			129			<i>parvus Say.</i>	N. W. Territory.
263			129			<i>armigerus Say.</i>	St. Peter & Red ri.
263			129			<i>bicarinatus Say.</i>	N. W. Territory.
263	xv	10	129	lxxiv	10	<i>Lymneus megasomus Say.</i>	N. W. Territory.
263			130			<i>emarginatus Say.</i>	Lake Namekan.
263			130			<i>elongatus Say.</i>	Rainyla., Seiner.
264			130			<i>desidiosus Say.</i>	Falls of Niagara.
264	xv	11	130	lxxiv	11	<i>Physa heterostropha Say.</i>	N. W. Territory.
264			130			<i>Valvata sincera Say.</i>	N. W. Territory.
264	xiv	2	130	lxxiii	2	<i>Paludina limosa Say.</i>	N. W. Territory.
265			131			<i>Ampullaria depressa Say.</i>	East Florida.
265	xiv	3, 4	131	lxxiii	3, 4	<i>Melania virginica Say.</i>	Falls of Niagara.
						<i>Anodonta gibbosa Say.</i>	South Carolina.

Say.—7. Descriptions of some new Terrestrial and Fluvialile Shells of North America, 1829, 1830, 1831. New Harmony, Ind., 1840.

[This consists of a reprint by Mrs. Say of some of the descriptions contained in "The New Harmony Disseminator of Useful Knowledge," and in the "Transylvania Journal of Medicine." It is referred to in the left-hand column of the two succeeding articles.—W. G. B.]

Say.—8. Descriptions of some New Terrestrial and Fluvialile Shells of North America. (New Harmony Disseminator of Useful Knowledge.)

Vol. II, No. 15.—July 29, 1829.

Page of Say's reprint.	Page of N. H. Diss.	Page of Blaney's edition.	Name.	Locality.
13	229	36	<i>Helix lucubrata Say.</i>	Mexico.
14	229	36	<i>suppressa Say.</i>	Pennsylvania.
14	229	37	<i>fatigiata (Polygyra) Say.</i>	New Harmony.
24	230	38	<i>Pupa placida Say.</i>	Massachusetts.
23	230	38	<i>Succinea vermeta Say.</i>	New Harmony.
24	230	38	<i>undulata Say.</i>	Mexico.
23	230	148	<i>Lymneus caperatus Say.</i>	Indiana.

No. 16.—August 12, 1829.

23	244	148	<i>Lymneus attenuatus Say.</i>	Mexico.
22	244	148	<i>Valvata humeralis Say.</i>	Mexico.
20	244	146	<i>Paludina intertexta Say.</i>	Louisiana.
20	245	145	<i>transversa Say.</i>	Louisiana.
20	245	146	<i>elongata Swainson.</i>	St. John's riv., Fla.
			<i>P. multilineata Say.</i>	
20	245	146	<i>subpurpurea Say.</i>	Fox river.
21	245	147	<i>Ampullaria rotundata Say.</i>	St. John's riv., Fla.

No. 17.—August 28, 1829.

22	260	147	<i>Ampullaria depressa Say = A. paludosa.</i>	
22	260	147	<i>Ampullaria flagellata Say.</i>	Mexico.
16	260	141	<i>Melania</i>	Wabash.
16	260			Florida.
1				ky.

land river.

No. 18.—September 9, 1829.

Page of Say's reprint.	Page of N. H. Diss.	Page of Binney's edition.	Name.	Locality.
17	275	143	<i>Melania laqueata Say.</i>	Cumberland river.
18	276	143	<i>obovata Say.</i>	Kentucky river.
18	276	144	<i>integra Say.</i>	Ohio river.
19	227	144	<i>isogona Say.</i>	Bear-grass cr., Louisville.
19	227	144	<i>trilineata Say.</i>	Falls of Ohio.

No. 19.—September 23, 1829.

19	291	145	<i>Melania depygis Say.</i>	Falls of Ohio.
	291	165	<i>Unio heros Say.</i>	Fox river.
	291	225	<i>peruvianus</i> Auct. Am. = <i>U. plicatus.</i>	
5	292	131	<i>cicatricosus Say.</i>	Wabash.
	293	155	<i>monodonta Say.</i>	Falls of Ohio.
5	293	132	<i>velum Say.</i>	Kentucky river.
5	293	132	<i>cardice Say = U. cordata.</i>	
5	283	132	<i>incurvus Say = U. intorta.</i>	

No. 20.—October 7, 1829.

308	131	<i>Unio dehiscens Say.</i>	Wabash.
308	131	<i>ridibundus Say.</i>	Cumberland river.
309	131	<i>personatus Say.</i>	Wabash.
309	131	<i>apiculatus Say.</i>	Near New Orleans.

No. 21.—October 21, 1829.

323	134	<i>Unio radula Say.</i>	
7	324	<i>purpureus Say.</i>	

No. 22.—November 4, 1829.

10	339	137	<i>Alasmodonta sculptilis Say.</i>	Virginia.
	339	131	<i>confragosa Say.</i>	Wabash river.
10	340	137	<i>edentula Say.</i>	Wabash river.
11	340	138	<i>Anodonta implicata Say.</i>	Danvers, Mass.
11	340	138	<i>lugubris Say.</i>	Cumberland river.
12	341	139	<i>grandis Say.</i>	Fox river.

No. 23.—November 18, 1829.

12	355	139	<i>Anodonta impura Say.</i>	Mexico.
13	355	140	<i>imbecillis Say.</i>	Wabash river.
10	356	137	<i>Cyclas edentula Say.</i>	Lake Canandaigua.
10	356	138	<i>transversa Say.</i>	Kentucky.
11	356	138	<i>triangularis Say.</i>	Mexico.

In newspaper form.—December 28, 1831.

P. of Say's reprint.	P. of Binney's edition.	Name.	Locality.
25	39	<i>Bulimus alternatus</i> Say.	Mexico.
25	39	<i>undatus</i> Brug.	Mexico.
25	39	<i>serperastrus</i> Say.	Mexico.
26	40	<i>emeus</i> Say.	Mexico.
15	140	<i>Melania pluristriata</i> Say.	Mexico.

January 15, 1831.

26	149	<i>Ancylus tardus</i> Say.	Wabash river.
6	133	<i>Unio purpuratus</i> Say.	Mexico.
6	133	<i>metallicus</i> Say.	Mexico.
6	134	<i>subrostratus</i> Say.	Wabash.
	132	<i>velum</i> Say.	Kentucky.
26	149	<i>Bulla fluviatilis</i> Say = young <i>Planorbis</i> .	

January 29, 1831.

13	140	<i>Anodonta imbecillis</i> Say.	
	161	<i>suborbiculata</i> Say.	Near Wabash river.

Say.—9. Descriptions of several new species of Shells and of a new species of *Lumbricus*. (Transylvania Journal of Medicine, vol. iv, 1831. Lexington, Ky.)

Page of Say's reprint.	Page of Tr. J. Binney's Med. edition.	Page of Binney's edition.	Name.	Locality.
	525	149	<i>Unio interruptus</i> Say.	See "Amer. Conch." for locality.
	526	149	<i>glebulus</i> Say.	
	527	149	<i>nexus</i> Say.	
	527	149	<i>declivis</i> Say.	
	528	149	<i>lapillus</i> Say.	
15	528	37	<i>Helicina occulta</i> Say.	New Harmony, Ind.

Say.—10. American Conchology; or, Descriptions of the Shells of North America. Illustrated by colored figures from original drawings executed from nature. New Harmony, Ind.

[The numbering of the plates is the same in the original and reprint.]

Part I.—1830.

P. of rept.	Pl.	Name.	Locality.
150	i	<i>Astarte castanea</i> <i>Truncatella</i>	New Jersey.

P. of repr. Pl.		Name.	Locality.
151	ii	<i>Pandora trilineata</i> Say.	S'n & middle coast.
152	iii	<i>Oliva literata</i> Lam.	Southern coast.
153	iv	<i>Unio triangularis</i> Barnes. <i>U. cuneatus</i> Sw.	
154	v	<i>sulcatus</i> Lea. <i>U. flagellatus</i> Say MS.	Wabash & Ohio rivs.
154	v	<i>ridibundus</i> Say. var. <i>perplexus</i> .	Cumberland river.
155	vi	<i>monodonta</i> Say.	Wabash & Ohio rivs.
156	vii	<i>Delphinula? laxa</i> Say.	Charleston.
157	viii	<i>Melania nupera</i> Say.	Wabash river.
157	viii	<i>depygis</i> Say.	Ohio river.
158	ix	<i>Lutraria lineata</i> Say. <i>L. papyracea</i> Lam.?	N. Jersey to Florida.
159	x	<i>Paludina decisa</i> Say. <i>Cochlea Virginiana</i> , &c. Lister.	
159	x	<i>vivipara</i> Linn. <i>Cochlea vivipara</i> , &c. Lister. <i>Helix vivipara</i> Linn. <i>Nerita vivipara</i> Müll. <i>Cyclostoma vivipara</i> Dr. <i>Lé vivipare à bandes</i> Geoff. Cuv.	Florida, S. Carolina.

Part II.—April, 1831.

161	xi	<i>Anodonta suborbiculata</i> Say.	Wabash river.
163	xii	<i>Nucula limatula</i> Say.	Nahant, Mass.
164	xii	<i>lævis</i> Say (fossil).	
164	xii	<i>concentrica</i> Say (fossil).	
33	xiii	<i>Helix albolabris</i> Say. <i>Cochlea Virginiana</i> , &c. Lister.	Canada to S. C.
33	xiii	<i>thyroidus</i> Say. <i>Cochlea umbilicata</i> , &c. Lister. <i>terrestris</i> , &c. Schröter.	
164	xiv	<i>Unio ellipsis</i> Lea.	
165	xv	<i>subtentus</i> Say.	Holstein river, S. C.
165	xvi	<i>undulatus</i> Barnes. <i>U. heros</i> Say.	Fox br. of Wabash.
166	xvii	<i>abruptus</i> Say.	Wabash river.
168	xviii	<i>Solecortus costatus</i> Say. <i>Solen costatus</i> Say.	Mass. to N. Jersey.
169	xix	<i>Fulgur pyruloides</i> Say. <i>Bulla ficus</i> (var. b) Gmelin. <i>Pyrula spirata</i> Lam. <i>Bulla pyrum</i> Dillw.	South of New Jersey.

P. of repr.	Pl.	Fig.	Name.	Locality.
34	xx		Glandina truncata Gmelin. <i>Buccinum striatum</i> Chemn. <i>Bulla truncata</i> Gmelin. <i>Polyphemus glans</i> Say. <i>Helix rosea</i> Fer. <i>E. flumine</i> , &c. Lister.	S. C., Ga., Fla., Miss

Part III.—September, 1831.

171	xxi		Alasmodonta confragosa Say.	Fox br. of Wabash riv., New Orleans
171	xxii		Unio phaseolus Hildreth. <i>U. cuneatus</i> (var.) Barnes. <i>planulatus</i> Lea.	Wabash river.
173	xxiii		tetralasmus Say.	New Orleans.
173	xxiv		dehiscens Say.	Wabash river.
175	xxv		Sigaretus perspectivus Say.	N. Jersey and South
176	xxv		maculatus Say.	Southern coast.
177	xxvi		Venus grata Say.	W. coast of Mexico.
179	xxvii		Scalaria clathrus L. <i>Turbo clathrus</i> L. <i>S. communis</i> Lam. <i>clathrus</i> Auct.	
180	xxvii		multistriata Say.	S. Carolina, Florida
180	xxvii		lineata Say.	Southern coast.
181	xxviii		Amphidesma transversum Say.	Georgia.
182	xxviii		æquale Say.	Charleston, S. C.
183	xxix		Fusus corneus Linn. <i>Murex corneus</i> L. <i>F. Islandicus</i> Martini. <i>Murex Islandicus</i> Gmelin.	New Jersey.
184	xxix		cinereus Say.	Maryland, N. Jersey
184	xxx	1	Paludina ponderosa Say.	Ohio river.
185	xxx	2	subpurpurea Say.	Fox river.
185	xxx	3, 4	intertexta Say.	New Orleans.

Part IV.—March, 1832.

187	xxxi	1	Limneus umbrosus Say. <i>L. elongatus</i> Say.	Council Bluff, U. C.
188	xxxi	2	reflexus Say.	Lake Superior.
188	xxxi	3	elodes Say. <i>L. palustris</i> Lin.?	New York.
188	xxxii		Unio ventricosus Barnes. <i>U. ventrus</i> (var. b) Lam. <i>ventricosus</i> Lea?	Western waters.
189	xxxiii		intertextus Say.	Bayou Teche.

P. of repr.	Pl.	Fig.	Name.	Locality.
190	xxxiv		<i>Unio glebulus</i> Say.	Bayou Teche.
190	xxxv		<i>declivis</i> Say.	Bayou Teche.
192	xxxvi	2	<i>Arca staminea</i> Say (fossil).	
192	xxxvi	1	<i>lienosa</i> Say (fossil).	
35	xxxvii	1	<i>Helix clausa</i> Say.	Western States.
35	xxxvii	2	<i>elevata</i> Say.	Western States.
			<i>H. Knoxvilleana</i> Fer.	
36	xxxvii	3	<i>profunda</i> Say.	Western States.
			<i>H. Richardii</i> Lam.	
192	xxxviii		<i>Siphonaria alternata</i> Say.	East Florida.
193	xxxix		<i>Bullina canaliculata</i> Say.	South Carolina.
			<i>Volearia canaliculata</i> Say.	
194	xl		<i>Cardita tridentata</i> Say.	South Carolina.
			<i>Venericardia tridentata</i> Say.	
On page 4 of cover—				
195			<i>Alasmodonta fragosa</i> Say.	Bay. Teche, not N. O.
195			<i>Ampullaria urceus</i> L.	Doubtful in the Mississippi.
			<i>A. rugosa</i> Lam.	

Part V.—August, 1832.

195	xli		<i>Unio lapillus</i> Say.	
196	xlii		<i>camptodon</i> Say.	New Orleans.
196	xliii		<i>lugubris</i> Say.	Bayou Teche, La.
			<i>U. ater</i> Lea.	
198	xliv		<i>Crepidula plana</i> Say.	New York to Florida.
199	xlvi		<i>Modiola papuana</i> d'Arg.	Maine.
			<i>Musculus papuanus</i> d'Arg.	
			<i>Modiola papuana</i> Lam.	
36	xlvi	1-3	<i>Helicina orbiculata</i> Say.	Florida.
			<i>Olygyra orbiculata</i> Say.	
36	xlvi	4-6	<i>occulta</i> Say.	New Harmony, Ind.
199	xlvii	2	<i>Melania Virginica</i> Gmelin.	Delaware & Schuyl-
			<i>Buccinum Virginicum</i> Gmelin.	kill rivers.
			<i>Paludina Virginica</i> Say.	
			<i>M. fasciata</i> Mke.	
199	xlvii	2	<i>multilineata</i> Say.	Philadelphia & N. J.
			<i>M. curta</i> Mke.	
200	xlvii	4	<i>semicarinata</i> Say.	Kentucky.
200	xlvii	1	<i>laqueata</i> Say.	Cumberland river.
200	xlviii		<i>Ranella caudata</i> Say.	
201	xlix	1	<i>Cerithium muscarum</i> Say.	Florida.
202	xlix	2	<i>septemstriatum</i> Say.	Florida.
203	xlix	3	<i>ferrugineum</i> Say.	Florida.

P. of repr.	Pl.	Fig.	Name.	Locality.
204	1		Mytilus hamatus Say. <i>M. striatus</i> Barnes.	Gulf of Mexico.
205			On page 4 of cover— <i>Sigaretus perspectivus</i> } <i>maculatus</i> } = Cryptostoma.	
205			Unio glebulus Say.	Bayou Teche.
205			Venericardia cribraria Say.	New Jersey.
Part VI.—April, 1834.				
205	li		Unio nexus Say. <i>U. arciformis</i> Lea.	Tennessee.
207	lii		apiculatus Say. <i>U. asper</i> Lea.	New Orleans.
207	liii		quadrulus Raf. <i>U. rugosus</i> Barnes. <i>asperimus</i> Lea. <i>lachrymosus</i> Lea.	Ohio & N. Orleans.
210	liv	1	Planorbis lentus Say.	N. Orleans & Mexico.
210	liv	2	trivolis Say. <i>Cochlea</i> &c. Lister.	Canada to Missouri.
210	liv	3	bicarinatus Say. <i>Helix angulatus</i> Rackett.	Canada to Missouri.
211	lv	1	Limneus emarginatus Say.	Canada and Maine.
211	lv	2	catascopium Say.	Penn'a and N. Y.
211	lv	3	decidiosus Say.	N. Y., Pa., and Ind.
213	lvi	1	Pecten Islandicus Müller. <i>Ostrea Islandica</i> Müller. <i>cinnabarina</i> Born. <i>Pealeii</i> Conrad.	Northern coast.
214	lvi	2	dislocatus Say.	South Carolina.
216	lvii	1	Nassa uncinata Say.	South Carolina.
216	lvii	2	vibex Say.	S. Carolina and N. J.
216	lvii	3	acuta Say.	Southern coast.
218	lviii		Ostrea equestris Say.	S. C., Ga., Antilles.
219	lix		Cytherea albaria Say (fossil).	South Carolina.
222	lx	1	Petricola pholadiformis Lam. <i>P. fornicata</i> Say.	Maine to Florida.
222	lx	2	dactylus Sowb. <i>P. flagellata</i> Say.	South Carolina.
222			Cryptostoma Say (n. g.)	
223			perspectivus Say.	
223			maculatus Say.	

[With this number appeared "An attempt to exhibit a Synonymy of the Western North American species of the genera *Unio* and *Alasmiodonta*." The list is here given, the paging referring to the reprint.—W. G. B.]

Page.	No.		Page.	No.	
223	1	<i>Unio niger</i> Raf. <i>U. cuneatus</i> Barnes.	224	16	<i>Unio truncatus</i> Raf. <i>U. undatus</i> B., var. a. <i>elegans</i> Lea.
223	2	<i>cariosus</i> Say. <i>U. viridis</i> Raf. <i>siliquoides</i> B., var. <i>radiatus</i> ? Gmel.	224	17	<i>interruptus</i> Raf. <i>U. brevidens</i> Lea.
223	3	<i>fasciatus</i> Raf. <i>U. carinatus</i> Barnes.	224	18	<i>lineolatus</i> Raf. <i>U. depressus</i> R., y'ng. <i>securis</i> Lea.
223	4	<i>leptodon</i> Raf. <i>U. planus</i> Barnes. <i>purpurescens</i> Sw. <i>tenuissimus</i> Lea.	224	19	<i>ellipsarius</i> Raf. <i>U. ellipticus</i> Barnes. <i>crassus</i> Say.
223	5	<i>fragilis</i> Raf. <i>U. gracilis</i> Barnes.	224	20	<i>fasciolaris</i> Raf. <i>U. crassus</i> Wood? <i>ponderosus</i> Gray. <i>mucronatus</i> Barnes, young. <i>phaseolus</i> Hildr. <i>planulatus</i> Lea.
223	6	<i>nervosus</i> Raf. <i>U. zig-zag</i> Lea. <i>donaciformis</i> Lea.	224	21	<i>verrucosus</i> Raf. <i>U. tuberculatus</i> Bar.
223	7	<i>laevigatus</i> Raf. <i>U. castaneus</i> ? Lea.	224	22	<i>flavus</i> Raf. <i>U. rubiginosus</i> Lea.
223	8	<i>rectus</i> Lam. <i>U. latissimus</i> Raf. <i>prælongus</i> Barnes.	224	23	<i>cyphius</i> Raf. <i>U. Æsopus</i> Green.
223	9	<i>dilatatus</i> Raf. <i>U. nasutus</i> Lam. <i>gibbosus</i> Barnes.	224	24	<i>metanevrus</i> Raf. <i>U. nodosus</i> Barnes.
224	10	<i>cylindricus</i> Say. <i>U. naviformis</i> Lam. <i>solenoides</i> Raf.	224	25	<i>reflexus</i> Raf. <i>U. cornutus</i> Barnes.
224	11	<i>cardium</i> Raf. <i>U. ventricosus</i> Barnes. <i>occidens</i> Lea. <i>suboratus</i> Lea, var. <i>capax</i> Green, var.	224	26	<i>retusus</i> Raf. <i>U. stapes</i> ? Lea, var.
224	12	<i>ovatus</i> Say.	224	27	<i>flexuosus</i> Raf. <i>U. pileus</i> Lea?
224	13	<i>fasciolus</i> Raf. <i>U. multiradiatus</i> Lea.	224	28	<i>nodulatus</i> Raf. <i>U. pustulatus</i> Lea.
224	14	<i>alatus</i> Say. <i>U. megapterus</i> Raf.	224	29	<i>quadrulus</i> Raf. <i>U. rugosus</i> Barnes. <i>lachrymosus</i> Lea. <i>asperimus</i> Lea.
224	15	<i>triqueter</i> Raf. <i>U. triangularis</i> Bar. <i>cuneatus</i> Sw. <i>formosus</i> Lea, var.	224	30	<i>nodulosus</i> Wood. <i>U. bullatus</i> Barnes. <i>verrucosus</i> B., var.

P. of repr.	Pl.	Fig.	Name.	Locality.
225			<i>Melania acuta</i> Lea = M. semicarinata Say.	
226			<i>Valvata arenifera</i> Lea = Phrygania .	
226			<i>Carocolla heuicoides</i> Lea } = Helix palliata (var. a) Say.	
226			<i>Helix denotata</i> Fer. }	
226			<i>Carolinensis</i> Lea = H. appressa (var. a) Say.	
226			<i>Melania tuberculata</i> Lea = M. stygia Say.	
226			<i>elongata</i> Lea = M. elevata Say.	

On page 4 of cover—

235			Helix aspersa is said to be found in North America.	
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Part VII.—No date.

(Published by Mr. CONRAD after Mr. SAY's death.)

226	lxi	1	Donax variabilis Say.	Georgia and Florida.
226	lxi	2	fossor Say.	N. J. and Maryland.
226	lxii		Cyrena Carolinensis Say.	S. C., Fla., Ala., Ga.
			<i>Cyclas Carolinensis</i> Bosc.	
226	lxiii		Venus alveata Conrad (fossil).	Charleston.
			<i>V. paphia</i> Lam.?	
227	lxiv	1	Tellina brevifrons Say.	South Carolina.
228	lxiv	2	mera Say.	South Carolina.
228	lxv	1	alternata Say.	S. C., Ga., and Fla.
228	lxv	2	polita Say.	S. C. and Florida.
228	lxv	3	tenta Say.	South Carolina.
229	lxiv	3	tenuis Da Costa.	Charleston.
			<i>T. levis</i> Lister.	
229	lxvi		Arca zebra Swainson.	Florida.
230	lxvii		Unio truncatus Raf.	Western waters.
			<i>U. elegans</i> Lea.	
230	lxviii		lineolatus Raf.	Ohio, Alabama, and
			<i>U. depressa</i> Raf.	Bl. Warrior rivers.
			<i>securis</i> Lea.	
231			Venus cingenda Dillw.	
			<i>V. cancellata</i> Lam.	
			<i>elevata</i> Conrad.	
231			Chiton apiculatus Say.	South Carolina.

Say.—10. A Glossary to Say's Conchology. New Harmony, Ind., 1832. (Issued with No. 5 of the Conchology.)

[No descriptions being given, it is not included in Binney's edition, nor is the following.—W. G. B.]

Say.—11. Catalogue of Exotic Shells in my Cabinet, 1833.

Prime.—List of known species of *Pisidium*, with their Synonymy: by TEMPLE PRIME. (From Annals of New York Lyceum of Natural History, vol. vii. March, 1859.)

Page.		Page.	
94	Pisidium abditum Hald. <i>Cyclas minor</i> C. B. Ad. <i>P. minus</i> Stimp. <i>Kurtzi</i> Prime. <i>zonatum</i> Prime. <i>regulare</i> Prime. <i>notatum</i> Prime. <i>amplum</i> Ingalls. <i>resartum</i> Ingalls. <i>rubrum</i> Lewis MS. <i>plenum</i> Lewis.	102	Pisidium Steenbuchi Morch. <i>Cyclas Steenbuchi</i> Möll.
		102	tenellum Gould. <i>P. rubellum</i> Prime.
		102	variabile Prime. <i>P. grande</i> Whitt. MS.
		102	ventricosum Prime.
		102	Virginicum Byt. <i>Tellina Virginica</i> Gmel. <i>pusilla</i> (pars) Dillw.
95	Adamsi Prime. <i>Cyclas nitida</i> Migh.		<i>Cyclas Virginica</i> Fer. <i>dubia</i> Say.
97	compressum Prime. <i>Cyclas altilis</i> Anth. <i>P. altile</i> Anth.		<i>dubiosa</i> Say. (<i>Physemoda</i>) <i>æqualis</i> Raf.
98	equilaterale Prime.		<i>P. abruptum</i> Hald.
98	ferrugineum Prime.		<i>dubium</i> Hald.
100	Novi-Eboraci Prime.		<i>æquale</i> Raf.
101	rotundatum Prime.		

Cooper.—Report upon the Mollusca collected on the Survey: by WM. COOPER. (In Reports on the Natural History, &c., of Minnesota, Nebraska, Washington, and Oregon Territories, made in connection with the Pacific Railroad Survey. New York, 1859.)

[Descriptions of new species only are given, and full notes of locality, &c.—W. G. B.]

Page.		Page.	
369	Murex foliatus Gmelin. <i>M. monodon</i> Esch. <i>Cerastoma monodon</i> Carp. <i>foliatum</i> Carp.	369	Triton Oregonense Redf. <i>Tritonium</i> (<i>Buccinum</i>) <i>cancellatum</i> Midd. <i>Fusus Oregonensis</i> Reeve. <i>cancellatus</i> Reeve. <i>Triton cancellatum</i> (<i>Oregonense</i>) Carp.
369	festivus Hinds. <i>Picconatus festivus</i> Carp.		

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| <p>Page.</p> <p>370 Crysodomus antiquus
 <i>Swainson?</i> Carp.
 <i>Murex antiquus</i> Linn.
 <i>Fusus antiquus</i> Lam.
 <i>Tritonium</i> (<i>Fusus</i>) <i>antiquum</i>
 Midd.
 var. <i>Behringiana</i> Midd.</p> <p>370 Middendorfi Cooper.
 <i>Tritonium</i> (<i>Fusus</i>) <i>decem-</i>
 <i>costatum</i> Midd., nec Say.</p> <p>371 sitchensis Carp. [Midd.
 <i>Tritonium</i> (<i>Fusus</i>) <i>sitchense</i></p> <p>371 Nassa mendica Gould.</p> <p>371 Gibbsii Cooper (n. sp.)</p> <p>371 Purpura lactuca Esch.
 <i>Murex lactuca</i> Esch.
 <i>ferrugineus</i> Esch.
 <i>P. septentrionalis</i> Reeve.
 <i>Muricidia lactuca</i> Carp.</p> <p>372 ostrina Gould. [Desh.
 <i>P. Freycinetii</i> Midd., non
 <i>decemcostata</i> Midd.</p> <p>372 lapillus Linn.</p> <p>372 emarginata Desh.
 <i>P. Conradi</i> Nutt.</p> <p>372 Monoceros engonatum Con.
 <i>Purpura</i> (<i>Monoceros</i>) <i>engo-</i>
 <i>nata</i> Conr.
 <i>M. unicarinarum</i> Reeve.</p> <p>373 lapilloides Conr.
 <i>M. punctatum</i> Gray.</p> <p>373 Columbella gausapata Gld.</p> <p>373 valga Gould.</p> <p>373 Natica Lewisii Gould.
 <i>N. herculea</i> Midd.</p> <p>373 Potamis pullatus Gould.
 <i>Cerithidæ pullata</i> Carp.</p> <p>374 Melania plicifera Lea.</p> <p>374 silicula Gould.</p> <p>374 shortæensis Lea.</p> <p>374 Amnicola Nuttalliana Lea.
 <i>Paludina Nuttalliana</i> Lea.</p> <p>374 seminalis Hinds.
 <i>Paludina seminalis</i> Hinds.
 <i>Bithinia seminalis</i> Carp.</p> | <p>Page.</p> <p>374 Turritella Eschrichtii Midd.</p> <p>374 Littorina rudis Gould.
 <i>L. Barclayana?</i> Hinds.</p> <p>374 scutulata Gould.</p> <p>374 planaxis Nutt.</p> <p>375 Trochus filiosus Wood.
 <i>T. ligatus</i> Gould.
 <i>modestus</i> Midd.?</p> <p>375 schantaricus Midd.</p> <p>375 Haliotis Kamtschatkiana
 Jonas.</p> <p>375 Fissurella nigropunctata</p> <p>375 aspera Esch. [Sowb.
 <i>F. cratilia</i> Gould?
 <i>denseclathrata</i> Reeve?</p> <p>376 Nacella instabilis Carp.?</p> <p>376 Acmæa pelta Carp.?</p> <p>376 persona Carp.?</p> <p>376 spectrum Carp.?</p> <p>376 scabra Carp.?</p> <p>376 æruginosa Carp.?</p> <p>376 Scurria mitra Carp.?</p> <p>376 Chiton muscosus.</p> <p>376 submarmoreus.</p> <p>376 tunicatus.</p> <p>376 lignosus.</p> <p>376 Helix fidelis Gray.
 <i>H. Nuttalliana</i> Lea.</p> <p>376 Townsendiana Lea.</p> <p>376 Columbiana Lea.
 <i>H. labiosa</i> Gould.</p> <p>377 Vancouverensis Lea.</p> <p>377 devia Gould.
 <i>H. Baskervillei</i> Pfr.</p> <p>377 tudiculata Binney.</p> <p>377 Succinea Nuttalliana Lea.</p> <p>377 Limax Columbianus Gould.</p> <p>378 Lymnæa umbrosa Gould.</p> <p>378 emarginata Say.</p> <p>378 jugularis Say.</p> <p>378 Physa elongata Say.</p> <p>378 heterostropha Say.</p> <p>378 bullata Gould. MS.</p> <p>378 Ancylus caurinus Coop. n. s.?</p> <p>378 Planorbis corpulentus Say.</p> |
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|---|--|
| <p>Page.</p> <p>378 <i>Planorbis trivolvis</i> Say.</p> <p>378 <i>planulatus</i> Cooper, n. sp.</p> <p>379 <i>Bulla nebulosa</i> Gould.</p> <p>379 <i>tenella</i> Adams.</p> <p>379 <i>Ostrea edulis</i> Linn. [Desh.</p> <p>379 <i>Anomia machroschisma</i>
<i>Placunanomia macroschisma</i>
Carp.</p> <p>379 <i>Pecten caurinus</i> Gould.</p> <p>380 <i>ventricosus</i> Sowb.
<i>P. tumidus</i> Sowb.</p> <p>380 <i>Mytilus edulis</i> Linn.</p> <p>380 <i>Californianus</i> Contr.</p> <p>380 <i>Modiola capax</i> Contr.</p> <p>380 <i>flabellata</i> Gould.</p> <p>380 <i>Lithodomus</i>.</p> <p>381 <i>Arca grandis</i> Brod. & Sowb.</p> <p>381 <i>Margaritana margaritifera</i>
Lea.
<i>Mya margaritifera</i> Linn.
<i>Margar. fluctilis</i> Schum.
<i>Alasmodonta falcata</i> Gld.</p> <p>381 <i>Anodonta angulata</i> Lea.
<i>A. feminalis</i> Gould.</p> <p>381 <i>Oregonensis</i> Lea.</p> <p>381 <i>Wahlamatensis</i> Lea.</p> <p>382 <i>Cardium Nuttalli</i> Contr.</p> <p>382 <i>quadragenarium</i> Contr.</p> <p>382 <i>Lucina Californica</i> Contr.</p> <p>382 <i>Cyclas</i> —, n. sp.</p> <p>382 <i>Venus staminea</i> Contr.
<i>Venerupis Petitii</i> Desh.
<i>Venus rigida</i> Gould.</p> | <p>Page.</p> <p><i>Tapes diversa</i> Sowb.
<i>straminea</i> Carp.</p> <p><i>Saxidomus Petitii</i> Carp.</p> <p>383 <i>Saxidomus Nuttalli</i> Contr.
<i>Venerupis gigantea</i> Desh.
<i>Venus maxima</i> Philippi.
<i>S. gigantea</i> Carp.</p> <p>383 <i>Venus lamellifera</i> Contr.
<i>Venerupis cordieri</i> Desh.
(var. <i>S.</i>)
<i>Petricola cordieri</i> Desh.
<i>Rupellaria lamellifera</i> Car.</p> <p>384 <i>Lutraria maxima</i> Midd.
<i>L. capax</i> Gould.</p> <p>384 <i>Tellina nasuta</i> Contr.</p> <p>384 <i>edentula</i> Brod. & Sowb.</p> <p>384 <i>bodegensis</i> Hinds. [Contr.</p> <p>385 <i>Sanguinolaria Californiana</i>.</p> <p>385 <i>Solen sicarius</i> Gould.</p> <p>385 <i>Machaera Nuttalli</i> Carp.
<i>Solen maximus</i> Wood, nec
Chemn.
<i>Solecurtus Nuttalli</i> Contr.
<i>M. costata</i> Midd.
<i>maximu</i> Gould.</p> <p>385 <i>Mya cancellata</i> Contr.
<i>Platodon cancellatum</i> Con.</p> <p>385 <i>Sphaenia Californica</i> Contr.
<i>Cryptomya Californica</i> Con.</p> <p>386 <i>Mytilimeria Nuttalli</i> Contr.</p> <p>386 <i>Pholas penita</i> Contr.
<i>Pholas concamerata</i> Desh.
<i>Parapholas penita</i> Contr.</p> |
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In Appendix—*Machaera Nuttalli* = *M. patula*.

Binney—Gould.—The Terrestrial Air-breathing Mollusks of the United States, and the adjacent Territories of North America, described and illustrated by AMOS BINNEY: edited by A. A. GOULD. Boston, vols. i, ii, 1851; vol. iii (plates), 1857.

[In vol. i, are general remarks on classification, history, geographical distribution, &c., with Special Anatomy by Dr. J. LEIDY.]

Vol. I.—1851.

Page.	Name.	Locality.
48	<i>Odotropis Raf.</i>	
49	<i>Mesomphix Raf.</i>	
49	<i>Tridopsis Raf.</i>	
49	<i>Xolotrema Raf.</i>	
49	<i>Chimotrema Raf.</i>	
49	<i>Toxotrema Raf.</i>	
49	<i>Stenotrema Raf.</i>	
49	<i>Aplodon Raf.</i>	
49	<i>Mesodon Raf.</i>	
49	<i>Omphalina Raf.</i>	
50	<i>Agatina variegata Raf.</i>	Louisiana
50	<i>fuscata Raf.</i>	Texas.
51	<i>Philomycus quadrilus Raf.</i>	Hudson river.
52	<i>oxurus Raf.</i>	New York.
52	<i>fuscus Raf.</i>	Ohio.
52	<i>flexuolaris Raf.</i>	Catskill mountains.
52	<i>Eumelus nebulosus Raf.</i>	Ohio and Kentucky.
52	<i>lividus Raf.</i>	Ohio, Indiana, and Ky.
53	<i>Hemiloma ovata Raf.</i>	Lexington.
53	<i>Limax gracilis Raf.</i>	Kentucky.

Page.	Plate.	Fig.	Name.	Page.	Plate.	Fig.	Name.
			Anatomy of—				Anatomy of—
248	i		<i>Limax variegatus.</i>	255	ix	4	<i>Helix fuliginosa.</i>
249	ii	1-4	<i>Arion hortensis.</i>	255	ix	5-6	<i>auriculata.</i>
250	ii	5-6	<i>Limax campestris.</i>	256	ix	7-9	<i>pulchella.</i>
250	ii	7-9	<i>agrestis.</i>	256	x	1-3	<i>exoleta.</i>
250	iii		<i>Tebennophorus Caro-</i>	256	x	4-5	<i>elevata.</i>
			<i>linensis.</i>	256	xi	1-4	<i>Sayii.</i>
251	iv		<i>Vaginulus Floridanus.</i>	257	xi	5-6	<i>hirsuta.</i>
252	v		<i>Bulimus fasciatus.</i>	257	xi	7-9	<i>thyroidus.</i>
252	vi		<i>Helix albolabris.</i>	257	xii	1-3	<i>intertexta.</i>
253	vii	1	<i>cellaria.</i>	257	xii	4-7	<i>ligera.</i>
253	vii	2-5	<i>alternata.</i>	258	xii	9-11	<i>concava.</i>
253	vii	4-7	<i>perspectiva.</i>	258	xiii	1-3	<i>Succinea obliqua.</i>
253	vii	8	<i>palliata.</i>	258	xiv		<i>Glandina truncata.</i>
254	viii	1-6	<i>multilineata.</i>	259	xv	2-4	<i>Pupa incana.</i>
254	viii	7-10	<i>solitaria.</i>	259	xv	5-6	<i>Bulimus decollatus.</i>
255	viii	11	<i>Berlandieriana.</i>	259	xv	7-8	<i>virgulatus.</i>
	x	1-3	<i>profunda.</i>	259	xvi		<i>Glandina truncata.</i>

Plate.	Fig.	Name.	Pa.	Plate.	Fig.	Name.
		Helix elevata Say.	183 xxvii			Helix tridentata Say.
		<i>H. Knoxvilliana</i> Fer.	xxviii			<i>H. jallox</i> Say.
		<i>Tennesseeensis</i> Lea.	186 xl			auriculata Say. [Say.
		thyroidus Say.				<i>Polygyra auriculata</i>
		exoleta Binn.				<i>avara</i> Say.
		<i>H. zaleta</i> Binn.				<i>Stenotrema avara</i> Hart.
		<i>albolabris</i> Fer., var.				<i>H. Sayii</i> Wood.
i		dentifera Binn.	189 xl a	4		vultuosa Gould.
v, xv		palliat Say.	191 xlv	1		Texasiana Mor.
		<i>H. obstricta</i> Say.				<i>H. auriculata</i> Binn.
		<i>denotata</i> Fer.	193 xxxix	2, 4		fatigiata Say.
		<i>notata</i> Desh.				<i>H. Troostiana</i> Pfr.
		<i>Caroliniensis</i> Lea.				<i>Polygyra plicata</i> Say.
iii		<i>Carocolla helicoidea</i>				<i>fatigiata</i> Say.
		appressa Say. [Lea.				<i>Dorfeuillana</i> Lea
		<i>H. linguifera</i> Fer.				<i>Troostiana</i> Lea.
		<i>Tridopsis appressa</i>	196 xxxviii			septemvolva Say.
lv	2-3	inflecta Say. [Beck.	xxxix	1		<i>H. planorbula</i> Lam.
		<i>H. clausa</i> Fer.				<i>cereolus</i> Pfr.
		<i>Gonostoma clausa</i>	199 xl a	1		leporina Gould.
		Held.	201 xxxix	3		pustula Fer.
		<i>Tridopsis inflecta</i>	202 xvii	3		labyrinthica Say.
ix a	2	loricata Gld. [Beck.	204 xxxv			ligera Say.
i		monodon Rack.				<i>H. Rafinesquea</i> Fer.
		<i>H. fraterna</i> Say.				<i>Wardiana</i> Lea.
		<i>convera</i> Desh.	206 xxxvi			intertexta Binn.
		<i>Leaii</i> Ward.	208 xxiv			solitaria Say.
ii	3-4	hirsuta Say.				<i>Euryomphala solitaria</i>
		<i>H. stenotrema</i> Fer.	210 xxvi a			strigosa Gld. [Beck.
		<i>fraterna</i> Wood.	211 xxii a	1		sportella Gould.
		<i>porcina</i> Say.	212 xxv			alternata Say.
		<i>Tridopsis hirsuta</i> Beck.				<i>H. scabra</i> Lam.
iv		spinosa Lea. (Car.)				<i>Patula alternata</i> Held.
iv		Edgariana Lea.				<i>Euryomphala alternata</i>
a	3	germana Gould.				Beck.
a	2	maxillata Gould.	216 xxvi			Cumberlandiana Lea.
iii		Nuttalliana Lea.				<i>Carocolla Cumberlandiana</i> Lea.
		<i>H. fidelis</i> Gray.				striatella Anth.
x		Townsendiana Lea.	217 xxx	2		limatula Binn.
cl		concava Say.	219 xxx	3		minuscule Binn.
		<i>H. planorboides</i> Fer.	221 xvii a	2		<i>H. minutissima</i> Lea.
		<i>Circinaria planorboides</i> Beck.	222 xxxi			fuliginosa Grif.
x		Vancouverensis Lea.				<i>H. levigata</i> Fer.
		<i>H. concava</i> Binn.				<i>capillacea</i> Pfr.
iii a		Columbiana Lea.	225 xxxii			lucubrata Say.
ii		labiosa Gould.				<i>H. levigata</i> Fer.
cxix a	2	Mobiliana Lea.	227 xxxiv			inornata Say.
	4	saxicola Pfr.	229 xxxiii			subplana Binn.
xvii	1	<i>H. Mauriniana</i> D'Orb.	230 xxiv	4		cellaria Müll.
		pulchella Müll.				<i>H. glaphyra</i> Say.
		<i>H. minuta</i> Say.				<i>nitida</i> Dr.
xxii		profunda Say.	232 xlii	1		demissa Binn.
cxlii		<i>H. Richardi</i> Fer.	233 xxii a	2		lucida Dr.
cxlii		Sayii Binn.				<i>H. nitida</i> Müll.
		<i>H. diodonta</i> Say.				<i>hydrophila</i> Ingalls.

Pa.	Plate.	Fig.	Name.	Pa.	Plate.	Fig.	Name.
235	xxix	3	<i>Helix arborea</i> Say.	278	lviii		<i>Bulimus virgulatus</i> Fer
236	xxix	1	<i>electrina</i> Gould.				<i>Helix</i> (<i>Cochlogena</i>)
238	xxix a	3	<i>Ottonis</i> Pfr.				<i>virgulata</i> Fer.
			<i>H. arborea</i> Pfr., var.				<i>B. Caribbaeorum</i> Lam.
239	xxix a	1	<i>capsella</i> Gould.				<i>multilineatus</i> Say.
			<i>H. rotula</i> Gould.				<i>Menkei</i> Green.
240	xxix a	2	<i>selenina</i> Gould.				<i>venosus</i> Rve.
242	xix	2	<i>indentata</i> Say.	280	1	1	<i>decollatus</i> Linn.
243	xvii	4	<i>chersina</i> Say.				<i>Helix decollata</i> Linn.
245			<i>H. egena.</i>				<i>B. multilatus</i> Say.
245	xxii a	3	<i>egena</i> Say.				<i>mutilatus</i> Jay.
247	xxx	4	<i>interna</i> Say.	283	lii	4	<i>lubricus</i> Müll.
			<i>H. pomum-Adami</i> Gr.				<i>Helix lubrica</i> Müll.
250	xxxvii	3-4	<i>gularis</i> Say.				<i>Achatina lubrica</i> Mke.
253	xxxvii	1	<i>suppressa</i> Say.				<i>Zua lubrica</i> Leach.
254	xxxvii	2	<i>lasmodon</i> Phillips.				<i>Cionella lubrica</i> Jeffr.
256	xxx	1	<i>perspectiva</i> Say.				<i>Columna lubrica</i> lan.
			<i>H. parvula</i> Desh.				<i>Styloides lubricus</i> Fitz.
			<i>Euryomphala perspec-</i>	285	lii	4	<i>subula</i> Pfr.
			<i>tiva</i> Beck. [Held.				<i>Achatina subula</i> Pfr.
			<i>Patula perspectiva</i>				<i>B. octonoides</i> Orb.
258	xlvi	3	<i>multidentata</i> Binn.				<i>procerus</i> Adams.
261	xlvi	1	<i>lineata</i> Say. [Beck.	286	lii	1	<i>exiguus</i> Say.
			<i>Euryomphala lineata</i>				<i>Pupa exigua</i> Say =
266	lv		<i>Bulimus fasciatus</i> Müll.	288			<i>Carychium.</i>
	lvi		<i>Buccinum fasciatum</i>	288	lii	1	<i>fallax</i> Gould. [Say.
			Müll.				<i>Cyclostoma marginata</i>
	lvii		<i>Bulla virginea</i> Linn.				<i>Pupa fallax</i> Gould.
			<i>fasciata</i> Chemn.				<i>albilabris</i> Ad.
			<i>Bulim. vexillum</i> Brug.	290	lii	3	<i>harpa</i> Say.
			<i>Helix vexillum</i> Fer.				<i>Helix harpa</i> Say.
			<i>Achatina vexillum</i> Lk.				<i>Pupa costulata</i> Migh.
			<i>crenata</i> Sw.	293	lii	3	<i>Achatina gracillima</i>
			<i>pallida</i> Sw.				Pfr.
			<i>fasciata</i> Sw.				<i>Bulim. gracillimus</i> Pfr.
			<i>solida</i> Say.				<i>A. striato-costata</i> Orb.
271	lii		<i>zebra</i> Müll.	294	lii	2	<i>pellucida</i> Pfr.
			<i>Buccinum zebra</i> Müll.				<i>Tornatella Cubensis</i>
			<i>Bulla zebra</i> Gmel.				Pfr.
			<i>Zebra Mülleri</i> Chem.	298	lxii a		<i>Glandina bullata</i> Gld.
			<i>Bulimus undatus</i> Brug.				<i>G. truncata</i> Gould.
			<i>Helix undata</i> Fer.	299	lxii	1	<i>Vanuxemensis</i> Lea.
			<i>Bulimus melanocheilus</i>				<i>Achatina Vanuxemen-</i>
			Val.				<i>sis</i> Rve.
			<i>Achat. pulchella</i> Spix.	301	lix		<i>truncata</i> Say.
			<i>Bulimus princeps</i> Brod.		lx		<i>Bulla truncata</i> Gmel.
			<i>Achat. flammigera</i> S.		lxi	2	<i>Buccinum striatum</i> Ch.
274	l	2	<i>serperastrus</i> Say.				<i>Bulimus striatus</i> Brug.
			<i>B. nitelinus</i> Rv.				<i>Cochlicopa rosea</i> Fer.
			<i>lilacinus</i> Rv.				<i>Achatina rosea</i> Desh.
276	li		<i>dealbatus</i> Say.				<i>truncata</i> Orb.
	li a		<i>Helix dealbata</i> Say.				<i>Polyphemus glans</i> Say.
	li b		<i>Zebrina dealbata</i> Held.	306	lxix	1	<i>Cylindrella pontifica</i>
			<i>B. alternatus</i> Say.				Gould.
278			<i>Schiedeanus</i> Pfr.				<i>Pupa pontifica</i> Gould.
278			<i>lactarius</i> Mke.				

Pa.	Plate.	Fig.	Name.	Pa.	Plate.	Fig.	Name.
309	lxix	2	<i>Cylindrella lactaria</i> Gld. <i>Pupa</i> (<i>Siphonostoma</i>) <i>lactaria</i> Gould.	337	lxxi	1	<i>Vertigo milium</i> Gould (cut p. 338). <i>Pupa milium</i> Gould.
310	lxix	3	<i>jejuna</i> Gould.	339	lxxii	4	<i>Pupa corticaria</i> Say (cut p. 340). [Say. <i>Odostomia corticaria</i>
316	lxviii		<i>Pupa maritima</i> Pfr. <i>P. incana</i> Binn.				
318							
319	lii	2	<i>modica</i> Gould.	341	lxx	1	<i>rupicola</i> Say (cut p. 342). <i>P. procera</i> Gould.
320	lxx	4	<i>armifera</i> Say (cut p. 322.) [Mich.				
			<i>P. armigera</i> Pot. &	343	lxxii	3	<i>simplex</i> Gould. [Say.
323	lxx	3	<i>badia</i> Ad. (cut p. 324).	348	lxxii		<i>Cyclostoma dentatum</i>
324	lxx	2	<i>contracta</i> Say (cut p.	352	lxxiii		<i>Helicina orbiculata</i> S.
327	lxxi	3	<i>decora</i> Gould. [326).				<i>Oligyra orbiculata</i> S.
328	lxii	1	<i>pentodon</i> Say (cut p. 330). <i>Vertigo pentodon</i> Say. <i>P. cureidens</i> Gould. <i>Tappaniana</i> Ad.	252			<i>Helicina rubella</i> Gr'n.
				253			? <i>castanea</i> Sowb.
				253			<i>minuta</i> Sowb.
							<i>Ambeliana</i> De Roissy.
331	lxxii	2	<i>variolosa</i> Gould.	254			<i>tropica</i> lan.
332	lxxi	2	<i>Vertigo Gouldii</i> Binn. (cut p. 333). <i>Pupa Gouldii</i> Binn.	354	lxxiv	4	<i>chrysocheila</i> Binn.
				356	lxxiv	2	<i>occulta</i> Say. <i>Oligyra occulta</i> Say.
334	lxxi	4	<i>ovata</i> Say (cut p. 336). <i>Pupa ovata</i> Gould. <i>modesta</i> Gould.	358			<i>Helix divesta</i> Gould. <i>H. abjecta</i> Gould. <i>dejecta</i> Gould.

[Wood-cuts of the lingual ribbon of many of the species are also given.—W. G. B.]

Vol. III, Plates.—1857.

Pa.	Plate.	Fig.	Name.	Pa.	Plate.	Fig.	Name.
9				26			<i>Helix Nickliniana</i> Lea.
11	xi a		<i>devia</i> Gould. <i>H. Baskervillei</i> Pfr.	26			<i>H. Californiensis</i> Rve.
12			<i>ramentosa</i> Gould.				<i>Californiensis</i> Lea.
12			<i>æruginea</i> Gould.	27			<i>H. vineta</i> Val.
13			<i>infumata</i> Gould.				<i>divesta</i> Gould.
14			<i>Oregonensis</i> Lea =	31			<i>H. abjecta</i> .
14			<i>Dupetithouarsii</i> Desh.				<i>lucubrata</i> Say.
15			<i>areolata</i> Sowb.	31			<i>H. fuliginosa</i> Rve.
16			<i>Pandoræ</i> Forbes.				<i>septemvolva</i> Say (in-
16			<i>H. Damascenus</i> Gld.	33	xl v	2	ternal lamina).
17			<i>exigua</i> Stimpson.	33			? <i>triodonta</i> lan.
17			<i>Hindsii</i> Pfr.				<i>polychroa</i> Binn.
18			<i>Hopetonensis</i> Shuttl.	34			<i>H. rhodocheila</i> in pl.
19			<i>H. tridentata</i> Binn.,				<i>selenina</i> Gould.
19			<i>Rugeli</i> Shuttl. [var.	34			<i>H. vortex</i> Pfr.
			<i>mordax</i> Shuttl.				<i>tenuistriata</i> Bin.
20			<i>Zonites placentula</i>	40	lxxii	1	<i>Berlandieriana</i> Mor.
20			<i>macilenta</i> Shuttl.				<i>H. albolineata</i> in pl.
21			<i>Helix uvulifera</i> Shuttl.				<i>Pupa Tappaniana</i> Ad.
23			<i>barbigera</i> Redf.				(right hand fig.)
			<i>Elliotti</i> Redf.				<i>curvidens</i> Gould (left hand fig.)

W. G. Binney.—A Supplement to the same, constituting vol. iv: by W. G. BINNEY. (From the Boston Journal of Natural History, vol. vii, 1859.)¹

SECTION I.—THE SPECIES OF THE PACIFIC COAST.

Page.	Plate.	Fig.	Name.	Locality.
6			<i>Arion foliolatus</i> Gould.	Puget sound.
6			<i>Limax Columbianus</i> Gould.	Pisqually & Puget s.
6			<i>Succinea Nuttalliana</i> Lea.	Lewis river, Oregon.
6			<i>Oregonensis</i> Lea.	Oregon.
6	lxxix	14	<i>rusticana</i> Gould.	Oregon.
7			<i>cingulata</i> Forbes (e. l.)	Mazatlan.
7			<i>aperta</i> Lea (e. l.)	
7			<i>Helix tudiculata</i> Binney.	San Diego.
7			<i>Nickliniana</i> Lea.	California.
			<i>H. Californiensis</i> Chemn., &c.	
			<i>arboretorum</i> Val., &c.	
			<i>nemorivaga</i> Val.	
8	vi	1	<i>interclisa</i> W. G. Binney (mid. fig.)	Oregon.
			<i>H. Nickliniana</i> (var.) Binney.	
9	vi	1	<i>redimita</i> W. G. Binney.	California.
			<i>H. Nickliniana</i> (var.) Binney.	
11	lxxvi	5	<i>anachoreta</i> W. G. Binney.	California.
12			<i>reticulata</i> Pfr.	California.
12			<i>exarata</i> Pfr.	California.
13			<i>Californiensis</i> Pfr.	California.
			<i>H. vineta</i> Val.	
13			<i>ramentosa</i> Gould.	California.
14			<i>loricata</i> Gould.	California.
			<i>H. Leontii</i> Lea.	
14			<i>germana</i> Gould.	Oregon.
14			<i>fidelis</i> Gray.	Oregon.
			<i>H. Nuttalliana</i> Lea.	
15	lxxix	2	<i>infumata</i> Gould.	San Francisco.
15			<i>Townsendiana</i> Lea.	Oregon.
15	lxxvi	4	<i>arrosa</i> Gould.	San Francisco.
			<i>H. æruginea</i> Gould.	
15	lxxvi	9	<i>Dupetithouarsi</i> Desh.	California & Oregon.
			<i>H. Oregonensis</i> Lea.	
15	lxxix	21	<i>Mormonum</i> Pfr.	Mormon island, Cal.
16			<i>Columbiana</i> Lea.	Oregon.
			<i>H. labiosa</i> Gould.	

¹ Extra limitat and spurious species are respectively designated by the letters e. l. and sp. being affixed to their names.

Page.	Plate.	Fig.	Name.	Locality.
17	lxxix	13	<i>Helix devia</i> Gould.	Oregon.
			<i>H. Baskervillei</i> Pfr.	
17	lxxvi	12	<i>Kelletti</i> Forbes.	San Diego.
18	lxxvi	8	<i>Pandoræ</i> Forbes.	Santa Barbara.
			<i>H. damascenus</i> Gould.	
78	lxxvi	10	<i>levis</i> Pfr.	Columbia river.
19	lxxvi	11, 3	<i>areolata</i> Sowerby.	Oregon & California.
19			<i>Vancouverensis</i> Lea.	Columbia river.
			<i>H. vellicata</i> Forbes.	
19			<i>sportella</i> Gould.	San Diego, &c.
20	lxxvi	7	<i>Newberryana</i> W. G. B.	San Diego, &c.
22	lxxvi	6	<i>cultellata</i> Thompson.	Contra Costa co., Cal.
23			<i>strigosa</i> Gould.	Oregon, N. Mex., &c.
23			<i>Sagraiana</i> Orb. (sp.)	
23	lxxvi	1	<i>acutedenta</i> W. G. B. (e. l.)	
23	lxxvi	2	<i>Loisa</i> W. G. B. (e. l.)	
24			<i>aspersa</i> Müll. (e. l.)	
24			<i>Mazatlanica</i> Pfr. (e. l.)	
24	lxxix	15	<i>Bulimus Californicus</i> Ree.	California.
24	lxxix	12	<i>excelsus</i> Gould.	California.
			<i>B. elatus</i> Gould.	
25			<i>chordatus</i> Pfr. (e. l.)	
25			<i>Humboldti</i> Ree. (e. l.)	
25			<i>Mexicanus</i> Lam. (e. l.)	
25			<i>zebra</i> Müll. (e. l.)	
25			<i>Ziegleri</i> Pfr. (e. l.)	
25			<i>vegetus</i> Gould (e. l.)	
25			<i>vesicalis</i> Gould (e. l.)	
			<i>B. sufflatus</i> Gould.	
25			<i>Laurentii</i> Sowerby (e. l.)	
26	lxxix	19	<i>Achatina Californica</i> Pfr.	Monterey, Cal.
26			<i>Glandina Albersi</i> Pfr. (e. l.)	
26			<i>turris</i> Pfr. (e. l.)	
26	lxxix	8	<i>Melampus olivaceus</i> Carp.	Mazatlan.
28	lxxix	20	<i>Truncatella Californica</i> Pfr.	San Diego.
		22	<i>T. gracilentia</i> Gould.	

SECTION II.—THE SPECIES EAST OF THE ROCKY MOUNTAINS.

Family **Limacea.**

29	<i>Vaginulus Floridanus</i> Binney.	Charlotte harbor.
30	<i>flexuolaris</i> (sp.)	
30	<i>fuscus</i> (sp.)	
30	<i>oxyurus</i> (sp.)	
30	<i>quadrilus</i> (sp.)	

Page.	Plate.	Fig.	Name.	Locality.
30			Tebennophorus Carolinensis	E'n, Midd., S'n
			<i>Binney.</i>	W'n States.
			<i>Limax Carolinensis</i> Bosc.	
			<i>marmoratus</i> De Kay.	
31			dorsalis <i>Binney.</i>	Mass. and Verm.
			<i>Philomycus dorsalis</i> <i>Binney.</i>	
			<i>Limax dorsalis</i> De Kay.	
31			bilineatus <i>Cart.</i> (sp.)	
31			Arion hortensis <i>Dr.</i>	Boston, &c.
31			empiricorum <i>Fer!</i> (sp.)	
31			foliolatus <i>Gould</i> (sp.)	
31			Limax variegatus <i>Dr.</i>	Boston, &c.
			<i>L. flavus</i> De Kay.	
31			agrestis <i>Müll.</i>	Boston, &c.
32			campestris <i>Binney.</i>	Massachusetts, &
32			Columbianus <i>Gould</i> (sp.)	
32			fuliginosus <i>Gould</i> (sp.)	
32			olivaceus <i>Gould</i> (sp.)	
32			lineatus <i>De Kay</i> (sp.)	
32			gracilis <i>Raf.</i> (sp.)	
32			Eumelus lividus <i>Raf.</i> (sp.)	
32			nebulosus <i>Raf.</i> (sp.)	
32			Deroceras gracilis <i>Raf.</i> (sp.)	
32			Philomycus flexuolaris <i>Raf.</i> (sp.)	
32			fuscus <i>Raf.</i> (sp.)	
32			oxyurus <i>Raf.</i> (sp.)	
32			quadrilus <i>Raf.</i> (sp.)	
32			Testacina <i>Raf.</i> (sp.)	
32			Urcinella <i>Raf.</i> (sp.)	
32			Zilotea <i>Raf.</i> (sp.)	
Family Helicea.				
32	lxxix	9	Vitrina Angelicæ <i>Bk.</i>	Greenland.
			<i>Helix pellucida</i> <i>Fabr.</i>	
			<i>domestica</i> <i>Ström.</i>	
33			limpida <i>Gould.</i>	From Maine & L.
			<i>V. pellucida</i> De Kay.	Superior north
			<i>Americana</i> <i>Pfr.</i>	
34			Succinea campestris <i>Say.</i>	South Carolina, &
34	lxxx	11	inflata <i>Lea.</i>	Georgia.
			<i>S. campestris</i> (var.) <i>Binney.</i>	
35			obliqua <i>Say.</i>	Canada to Arkans
			<i>S. lineata</i> De Kay.	
35			Totteniana <i>Lea.</i>	Rhode Island, &c
			<i>S. obliqua</i> (var.) <i>Binney.</i>	

Page.	Plate.	Fig.	Name.	Locality.
35			Succinea avara Say. <i>S. vermetica</i> Say? <i>Wardiana</i> Lea.	Whole country.
37			aurea Lea. <i>S. ovalis</i> (var.) Anthony.	New York and Ohio.
37	lxxix	7	retusa Lea. <i>S. campestris</i> Anthony.	Ohio.
38	lxxx	4	Greenlandica Beck.	Greenland.
38	lxxx	5	lineata W. G. Binney.	Nebraska Territory.
40	lxxix	1	Haydeni W. G. Binney.	Nebraska Territory.
41			luteola Gould. <i>S. Texasiana</i> Pfr.	Texas.
41			Concordialis Gould. <i>S. munita</i> Binney.	L. Concordia, Tex.
41	lxxx	12	effusa Shuttl.	East Florida.
42	lxxix	18	Salleana Pfr. <i>putris</i> Linn. (sp.) <i>amphibia</i> Dr. (sp.)	New Orleans.
43			Helix major Binney. <i>H. albolabris</i> Pf.	Tenn. to Florida.
43			albolabris Say. <i>H. rufa</i> De Kay.	S. Car. to Arkansas, north to Canada.
45			multilineata Say.	N'n, Mid., W'rn St's, west of Aleg. mts.
45			Pennsylvanica Green. <i>H. Mitchelliana</i> Desh.	Middle States.
46			clausa Say. <i>H. Pennsylvanica</i> Pfr. <i>Mitchelliana</i> Chemn.	W'rn & S'rn States.
47	iv		Mitchelliana Lea. <i>H. clausa</i> pars Binney.	Ohio.
49	lxxvii	22	Berlandieriana Mor. <i>H. pachyloma</i> Mke. <i>virginalis</i> Pfr.	Southw'rn States and Mexico.
50	lxxvii	20	griseola Pfr. <i>H. cicercula</i> Fer. <i>splendidula</i> Anton. <i>albocincta</i> Binney. <i>albozonata</i> Binney. <i>albolineata</i> Gould. <i>Brandybæna pisum</i> Beck.	Texas, Mexico, and Central America.
51			hortensis Müll. <i>H. subglobosa</i> Binney. <i>nemoralis</i> Stimp.	Greenland, & Conn.? introduced on isl's of N. Atlan. coast.
51	lxxvii	4	aspersa Müll.	

Page.	Plate.	Fig.	Name.	Locality.
51			Helix divesta Gould.	
			<i>H. abjecta</i> Gould.	
51	lxxviii	22	varians Mke.	Florida.
			<i>H. carnicolor</i> Pfr.	
			<i>pisana</i> Chemn.	
			<i>submeris</i> Mighels.	
			<i>rhodocheila</i> Binney.	
			<i>polychroa</i> Binney.	
52			elevata Say.	N'r'n & Middle St's.
			<i>H. Tennesseensis</i> Lea.	
53	lxxvii	10	Clarkii Lea.	North Carolina.
53			thyroides Say.	Canada to Texas.
			<i>Anchistoma thyroides</i> Ad., Gen.	
54			bucculenta Gould.	
			<i>H. thyroides</i> B Pfr.	
54			exoleta Binney.	Georgia to Texas.
			<i>H. zaleta</i> Binney.	[Ga., &c.
			<i>albolabris</i> (var.) Pfr., &c.	Midd. & N'r'n States,
55			dentifera Binney.	N. Y., Ohio, Vt., Va.,
55	lxxvii	3	Roemerii Pfr.	Texas. [Me., Pa.
			<i>H.entifera</i> Pfr.	
56			palliat Say.	Whole country?
			<i>H. denotata</i> Fer.	
57			obstricta Say.	Ohio.
			<i>H. palliat</i> (var.) Binney.	
			<i>denotata</i> (var.) Fer.	
			<i>appressa</i> (var.) Desh.	
			<i>Carocolla helicoides</i> Lea.	
59			appressa Say.	W'r'n, Southw'r'n, &
			<i>H. linguifera</i> Fer.	Southern States.
59			inflecta Say.	Canada to Texas.
			<i>H. clausa</i> Raf. (<i>Xolotrema</i> .)	
60	lxxviii	15	Rugellii Shuttl.	Tennessee.
60			monodon Rack.	Canada to Texas.
			<i>H. fraterna</i> Say.	
			<i>Leatii</i> Ward.	
			<i>hirsuta</i> Fer.	
			<i>convexa</i> Pfr.	
61			stenotrema Fer.	S'r'n & W'r'n States.
			<i>H. hirsuta</i> (var.) Binney.	
62			hirsuta Say.	Canada to Texas.
			<i>H. sinuata</i> γ Gmelin.	
			<i>isognomostomus</i> γ Gmelin.	
			<i>convexa</i> Raf. (<i>Stenostoma</i> .)	
			<i>parcina</i> Say?	
			<i>Tridopsis hirsuta</i> Woodw.	

Page.	Plate.	Fig.	Name.	Locality.
63	lxxvii	2	Helix barbigera Redf.	Georgia.
63	lxxviii	7, 9	Edwardsi Bland.	Virginia.
65			spinosa Lea.	Ala., Ga., Tenn.
65			Edgariana Lea.	Tenn., Ark., Ala.
65			maxillata Gould.	Tennessee, Georgia
65			concava Say.	Whole country.
			<i>H. planorboides</i> Raf.	
			<i>dissidens</i> Desh.	
67			jejuna Say.	Ala., Ga., Florida.
			<i>H. Mobiliana</i> Lea, Binney.	
68			incrustata Poey.	Texas.
			<i>H. saxicola</i> Gould.	
69			pulchella Müll.	Whole country?
			<i>H. costata</i> Müll.	
			<i>minuta</i> Say.	
70			profunda Say.	Middle States, &c.
			<i>H. Richardi</i> Fer.	
70			Sayii Binney.	Illinois to Me. & Pa.
			<i>H. diodonta</i> Say.	
70			tridentata Say.	All the States.
			<i>Tridopsis lunula</i> Raf.	
71			fallax Say.	All the States?
			<i>H. tridentata</i> (var.) Binney.	
72	lxxvii	16	Hopetonensis Shuttl.	Florida and Georgia.
72	lxxvii	14	ventrosula Pfr.	Texas. [Natchez.
73			auriculata Say (Polyg.)	Fla., S. C., Ga., and
74			avara Say (Polyg.)	
			<i>H. auriculata</i> pars. Binney.	
			<i>Sayii</i> Wood.	
75			uvulifera Shuttl. (fig.)	Florida.
			<i>H. florulifera</i> Rve.	
			<i>auriculata</i> min. Fer.	
75			vultuosa Gould.	Texas.
76	lxxviii	1, 3, 4	Ariadnae Pfr.	Texas?
			<i>H. Couchiana</i> Lea.	
77	lxxviii	19	hippocrepis Pfr.	Texas.
79			Texasiana Mor.	Texas.
			<i>H. triodonta</i> Fer.	
			<i>auriculata</i> Binney, olim.	
			<i>Tamaulipasensis</i> Lea.	
80	lxxviii	24	Mooreana W. G. Binney.	Texas.
81	lxxviii	21	tholus W. G. Binney.	Texas.
82			fatigiata Say.	Tennessee.
			<i>H. fatigiata</i> Binney, pars.	
			<i>auriculata</i> Binney olim.	

Page.	Plate.	Fig.	Name.	Locality.
			<i>H. Texasiana</i> (var. β) Desh.	
			<i>Dorfeuilliana</i> Desh.	
			<i>Helicina fastigiata</i> Desh.	
84	lxxviii	13	Helix Hazardi Bland.	Tenn. & Kentucky.
			<i>Polygyra plicata</i> Say.	
			<i>H. fatigiata</i> Binney, pars.	
			<i>Texasiana</i> Pfr., &c.	
			<i>Dorfeuilliana</i> Desh.	
			<i>Troostiana</i> W. G. Binney.	
			<i>Helicina plicata</i> De Kay.	
86	lxxviii	2, 14	Dorfeuilliana Lea.	Ohio.
			<i>Polygyra Dorfeuilliana</i> Lea.	
			<i>H. fatigiata</i> Binney, pars.	
88	lxxviii	11	Troostiana Lea (Pol.)	Tennessee.
			<i>H. fatigiata</i> Binney, pars.	
			<i>plicata</i> Shuttl., &c.	
90	lxxvii	23	cereolus Muhlf.	Florida.
			<i>Polygyra septemvolva</i> Say.	
			<i>H. planorbula</i> Lam., &c.	
			<i>septemvolva</i> Binney.	
91	lxxviii	23	microdonta Desh.	Florida and Texas.
			<i>H. plana</i> Dunk.	
92	lxxviii	17	volvoxis Pfr.	Georgia and Florida.
			<i>Polygyra septemvolva</i> Beck.	
92	lxxviii	5, 6, 8	Hindsii Pfr.	Texas.
92			leporina Gould.	Miss., Ark., Ga., Ill., and Ind.
			<i>H. pustula</i> β Pfr.	
93			pustuloides Bland.	Georgia.
			<i>H. pustula</i> Binney in pl. non Fer.	
94	lxxvii	12	pustula Fer.	Ga., Fla., & Texas.
95			labyrinthica Say.	Whole country.
95			ligera Say.	W'rn St's, Ky., Pa., and Ark.
			<i>H. Rafinesquea</i> Fer.?	
			<i>Wardiana</i> Lea.	
96			intertexta Binney.	W'rn & Mid. St's, &c.
96			solitaria Say.	W'rn, S. W'rn, &c.
97	lxxvii	11	Cooperi W. G. Binney.	Nebraska.
98			alternata Say.	Whole country.
			<i>H. scabra</i> Lam.	
			<i>inflecta</i> Pfr.	
			<i>strongylodes</i> Pfr.	
99			mordax Shuttl.	North Carolina.
99			Cumberlandiana Lea.	West Tennessee.
			<i>Carocolla Cumberlandiana</i> Lea.	

Page.	Plate.	Fig.	Name.	Locality.
99			Helix striatella <i>Anthony.</i>	E'rn, W'rn, and N'rn
			<i>H. ruderata</i> Adams.	States, &c.
100			limatula <i>Binney.</i>	Northern States.
100	lxxvii	6, 7	minutissima <i>Lea.</i>	Ohio and N. York.
			<i>H. minuscula</i> teste Binney.	
101	lxxix	4, 5	millium <i>Morse.</i>	Maine.
102	lxxvii	19	exigua <i>Stimp.</i>	Mass. and Canada.
			<i>H. annulata</i> Case.	
			<i>striatella</i> jun. Gould.	
102			minuscula <i>Binney.</i>	Whole country.
			<i>H. minutalis</i> Mor.	
			<i>apex</i> Adams.	
			<i>Lavelleana</i> Orb. in text.	
			<i>Mauriniana</i> Orb. in tab.	
103	lxxvii	9	asteriscus <i>Morse.</i>	Maine.
			<i>H. minutissima</i> Gould.	
104	lxxx	14	kopnodes <i>W. G. Binney.</i>	Alabama.
105			fuliginosa <i>Binney.</i>	Whole country?
			<i>H. lævigata</i> Fer. teste A. B. non W. G. B.	
			<i>capillacea</i> Pfr.	
			<i>Omphalina cuprea</i> Raf.?	
106	lxxx	2	friabilis <i>W. G. Binney.</i>	Ind., Ill., Ala., Tex.
107			<i>caduca</i> Pfr.	Texas.
108			lævigata <i>Pfr.</i>	W'rn & S'rn States.
			<i>H. lucubrata</i> Binney, non Say.	
			<i>fuliginosa</i> Binney, olim.	
			<i>inornata</i> Rve.	
109			inornata <i>Say.</i>	N'rn, N. E'rn, W'rn,
			<i>H. glaphyra</i> Pfr.	and Mid. St's, &c.
110			subplana <i>Binney.</i>	Tennessee.
110	lxxvii	15	sculptilis <i>Bland.</i>	North Carolina.
111			cellaria <i>Müll.</i>	N. E'rn & Mid. St's.
			<i>H. glaphyra</i> Say.	
115	lxxix	10	bulbina <i>Desh.</i>	B'ks of O., Mo., Miss.
116			demissa <i>Binney.</i>	Pennsylvania.
116			lucida <i>Dr.</i>	New York and Ohio.
			<i>H. nitida</i> Müll.	
			<i>hydrophila</i> Ing.	
116			arborea <i>Say.</i>	U. S. and Canada.
116	lxxvii	18	Ellioti <i>Redf.</i>	Georgia and N. C.
117			electrina <i>Gould.</i>	E'rn, Mid., W'rn, &
117			Ottonis <i>Pfr.</i>	Florida. [S'rn St's.
117			Steenstrupii <i>Morch.</i>	Greenland.
			<i>Helicella Steenstrupii</i> Morch.	
			<i>H. nitida</i> Fabr.	
			<i>alliaria</i> Forb.	

BIBLIOGRAPHY OF

Plate.	Fig.	Name.	Locality.
		Helix capsella Gould.	Tennessee.
		<i>H. rotula</i> Gould.	
		<i>placentalis</i> Shuttl.	Georgia and Florida.
		vortex Pfr.	
		<i>H. selenina</i> Gould in vol. ii.	Tennessee.
		tenuistriata Binney.	
		<i>H. selenina</i> Gould in vol. iii.	Whole country.
		indentata Say.	Whole country.
		chersina Say.	
		<i>H. fulca</i> teste Mighels, &c.	Pennsylvania.
		<i>egena</i> Say = chersina teste Binn.	Greenland.
		Fabricii Beck.	
		<i>H. nitida</i> Fabr.	
		<i>Conulus Fabricii</i> Morch.	
		<i>H. Hammonis</i> Ström.?	Florida.
		Gundlachi Pfr.	
		<i>H. pusilla</i> Pfr.	
		<i>egena</i> Gould, non Say.	Western States, &c.
		interna Say.	Tennessee, Alabama,
		gularis Say.	Ohio, and Penn.
		<i>H. bicostata</i> Pfr.	
		<i>Rafinesquea</i> Fer.?	Middle States, Ala.,
		suppressa Say.	and Florida.
		<i>H. gularis</i> (var.) Pfr.	Alabama and Tenn.
		lasmodon Phillips.	
		<i>H. macilenta</i> Shuttl. in vol. iii.	N'n, W'n, S'n, and
		perspectiva Say.	Middle States, &c.
		<i>H. patula</i> Desh.	Vt., Ohio, Me., N. Y.
		multidentata Binney.	Whole country.
		lineata Say.	
		arbustorum Linn. (sp.)	
		Bonplandi Lam. (sp.)	
		<i>corpuloides</i> Mont. = Delphinoidea .	
		<i>harpa</i> Say = Bulimus .	
		<i>dealbata</i> Say = Bulimus .	
		depicta Grat. (sp.)	
		<i>domestica</i> Ström. = Vitrina Angelicæ ?	
		hieroglyphica Beck. (sp.)	Canada?
		hispida Linn. (sp.)	Pennsylvania?
		<i>irrorata</i> Say = lactea Müll.	
		nemorialis Linn. (sp.)	
		<i>pellucida</i> Fabr. = Vitrina Angelicæ .	
		pisana Müll. (sp.)	
		<i>subcylindrica</i> Pult. = Truncatella .	
		Trumbulli Linsl. = { Margarita arctica ?	
		{ Skenea serpuloides teste Gl.	

Page.	Plate.	Fig.	Name.	Locality.
125			<i>Helix virgata</i> Mont. (sp.)	
125	lxxvii	13	<i>Bulimus zebra</i> Müll.	Florida, Louisiana?
	lxxviii	12	<i>Agatina fuscata</i> Raf.	
126			<i>serperastrus</i> Say.	Texas.
			<i>B. nitelinus</i> Rve.	
			<i>lilacinus</i> Rve.	
			<i>Liebmanni</i> Pf.	
			<i>Ziebmanni</i> β Rve.	
			<i>nitelinus</i> γ Rve.	
126	lxxx	3, 1?	<i>alternatus</i> Say.	Louisiana, Texas.
			<i>B. lactarius</i> Pfr.	
			<i>dealbatus</i> pars Binney.	
128			<i>Marise</i> Albers.	Texas.
128			<i>Binneyanus</i> Pfr.	Texas.
			<i>B. dealbatus</i> (var.) Binney.	
			<i>Schiedeanus</i> Gould, vol. iii.	
129	lxxx	8, 15	<i>Schiedeanus</i> Pfr.	Texas.
129	lxxx	13	<i>patriaroha</i> W. G. Binney.	Texas.
130	lxxx	6, 7	<i>dealbatus</i> Say.	Southwestern St's.
			<i>Helix dealbata</i> Say.	
			<i>B. confinis</i> Rve.	
			<i>liquabilis</i> Rve.	
132			<i>multilineatus</i> Say.	Florida.
			<i>B. virgulatus</i> Binn. vol. iii, excl., syn. non Fer.	
132	lxxx	10	<i>Dormani</i> W. G. Binney.	St. Augustine.
134	lxxix	3	<i>Floridanus</i> Pfr.	Florida.
134			<i>decollatus</i> Linn.	Charleston, S. C.
			<i>B. mutilatus</i> Say.	
134			<i>subula</i> Pfr.	Florida.
			<i>Achatina subula</i> Pfr.	
			<i>B. hortensis</i> Adams.	
134			<i>gracillimus</i> Pfr.	East Florida.
			<i>Achatina gracillima</i> Pfr.	
135			<i>Gossel</i> Pfr.	Texas.
135			<i>harpa</i> Say.	N. W. Terr., Maine.
			<i>Helix harpa</i> Say.	
136			<i>marginatus</i> Say.	Whole country?
			<i>Cyclostoma marginata</i> Say.	
			<i>Pupa fallax</i> Say.	
			<i>albilabris</i> Adams.	
			<i>Parraianus</i> Orb.	
			<i>placida</i> Say?	
			<i>B. fallax</i> Gould.	
137			<i>acicula</i> Müll.	} Introduced.
137			<i>octona</i> Brug.	

Page.	Plate.	Fig.	Name.	Locality.
137			<i>Bulimus exiguus</i> Binney = Carychium exiguum.	
137			<i>fasciatus</i> Binney = Achatina.	
137			<i>Gossei</i> Pfr. } = Macr. pontificus?	
137			<i>Kieneri</i> Pfr. }	
137			<i>lubricus</i> Adams = Achatina.	
137			<i>obscurus</i> vid. Pupa placida.	
137			<i>striatus</i> Brug. = Glandina truncata.	
137			<i>vezillum</i> Brug. } = Achatina fasciata.	
137			<i>zebra</i> Orb. }	
137			vermetus Anthony (sp.)	Cincinnati.
137			Macroceramus pontificus Gld.	E. Florida and Cuba.
			<i>Bulimus Kieneri?</i>	
			<i>Pupa pontifica</i> Gould.	
133			Achatina fasciata Müll.	Florida.
			<i>Bulimus fasciatus</i> Binney.	
			<i>Buccinum fasciatum</i> Müll.	
			<i>A. solida</i> Say.	
			<i>picta</i> Rve., &c. &c.	
			<i>Agatina variegata</i> Raf.	
138			lubrica Müll.	N. W. Terr., N. E'n and Midd. States.
			<i>Bulimus lubricus</i> Binney.	
			<i>lubricoides</i> St., &c. &c.	
138			virginea Jay (sp.)	
			<i>Bulimus vezillum</i> De Kay.	
138			<i>bullata</i> Pfr.	} = Glandina.
139			<i>striata</i> De Kay.	
139			<i>Texasiana</i> Pfr.	
139			<i>truncata</i> Pfr.	
139			<i>Vanuxemensis</i> Pfr.	
139			flammigera De Kay (sp.)	
139			<i>flammigera</i> Say = Bulimus zebra.	
139			<i>gracillima</i> Pfr. = Bulimus.	
139			<i>pellucida</i> Binney = Blauneria pellucida.	
139			<i>rosea</i> Desh. = Glandina truncata.	
139			<i>subula</i> Pfr. = Bulimus.	
139			Glandina bullata Gould.	Louisiana.
			<i>Achatina bullata</i> Pfr.	
			<i>Oleacina bullata</i> Gr. and Pf.	
139	lxi	1	corneola W. G. Binney.	Texas and Mexico.
			<i>G. truncata</i> (var.) Binney.	
140	lxii	2	parallela W. G. Binney.	Louisiana.
			<i>G. truncata</i> (var.) Binney.	
140	lxxvii	21	Texasiana Pfr.	Texas.
			<i>G. truncata</i> (var.) Binney.	
			<i>Achatina Texasiana</i> Pfr.	

Page.	Plate.	Fig.	Name.	Locality.
141	lxxx	9	Glandina truncata Gmelin. <i>Achatina truncata</i> Pfr., &c. <i>Planorbis glans</i> De Kay. <i>Oleacina truncata</i> Gr. and Pfr. <i>Achatina striata</i> Ch.	Southern States.
141			Vanuxemensis Lea. <i>Achatina Vanuxemensis</i> Pfr. <i>Oleacina Vanuxemensis</i> Gr. and Pfr.	Texas and Mexico.
141	lxxix	17	Pupa incana Binney. <i>P. maritima</i> Gould, non Pfr. <i>detrita</i> Shuttl.	Florida and Cuba.
142			modica Gould.	Florida.
142			armifera Say. <i>P. rupicola</i> Pfr. Symb.	Whole country?
142			badia Adams. <i>P. muscorum</i> teste Pfr.	Crown Point.
143			contracta Say. <i>P. corticaria</i> Pfr. Symb. <i>deltostoma</i> Charp. <i>Vertigo contracta</i> Ad. Gen.	Whole country?
143			decora Gould. <i>Vertigo decora</i> Ad. Gen.	Lake Superior.
143			pentodon Say. <i>Vertigo pentodon</i> Say. <i>P. curvidens</i> Gould. <i>Tappaniana</i> Ward.	Whole country?
144			placida Say. <i>P. fullax</i> teste De Kay, &c. <i>Bulimus hordeaceus?</i> teste De Kay. <i>obscurus</i> teste Gould, &c.	Massachusetts.
145			rupicola Say. <i>Carychium?</i> <i>rupicola</i> Say. <i>P. procera</i> Gould. <i>carinata</i> Gould. <i>gibbosa</i> Chemn. <i>minuta</i> Pfr. <i>Vertigo rupicola</i> Binney. <i>minuta</i> Ads. Gen.?	Ark., S. C., Md., Fla., and St. Croix.
146			variolosa Gould. <i>Vertigo variolosa</i> Ads. Gen.	East Florida.
146			corticaria Say. <i>Odostomia corticaria</i> Say. <i>Carychium corticaria</i> Fer.	Mid. States & Miss.
147			pellucida Pfr.	Texas and Cuba.

Page.	Plate.	Fig.	Name.	Locality.
147			Pupa Hoppii Moll.	Greenland.
			<i>P. Steenbuchii</i> Beck.	
147			<i>albilabris</i> Adams = Bulimus marginatus .	
147			<i>costulata</i> Mighels = Bulimus harpa .	
147			<i>exigua</i> Say = Carychium .	
147			<i>fallax</i> Say = Bulimus marginatus .	
148			<i>Gouldii</i> Binney } = Vertigo .	
148			<i>miliun</i> Gould }	
148			<i>modesta</i> Say }	
148			<i>ovata</i> Gould }	
148			<i>ovulum</i> Pfr. }	
148			<i>Parraiana</i> Orb. = Bulimus marginatus .	
148			<i>simplex</i> Gould = Vertigo .	
148			<i>unicarinata</i> Binney = Macr. pontificus .	
148			Vertigo Gouldii Binney.	N. England, Penn'a,
			<i>Pupa Gouldii</i> Binney.	N. Y., and Md.
148			miliun Gould.	New England, Ohio,
			<i>Pupa miliun</i> Gould.	Mississippi.
148			ovata Say.	Whole country?
			<i>Pupa ovata</i> Gould, &c.	
			<i>modesta</i> Say.	
			<i>ovulum</i> Pfr.	
148			simplex Gould.	Mass. and Conn.
			<i>Pupa simplex</i> Gould, &c.	
149			<i>contracta</i> Ads. Gen. } = Pupa .	
149			<i>decora</i> Ads. Gen. }	
149			<i>minuta</i> Ads. Gen. = Pupa rupicola .	
149			<i>pentodon</i> Say } = Pupa .	
149			<i>rupicola</i> Binney. }	
149			Cylindrella variegata Pfr.	Florida?
			<i>C. lactaria</i> Gould.	
149			Poeyana Orb.	Florida.
			<i>Pupa Poeyana</i> Orb.	
			<i>C. lactaria</i> Binney in tab.	
150			jejuna Gould.	Florida.
			<i>C. variegata</i> teste Pfr.	
150			Roemerl Pfr.	New Braunfels, Tex.
151	lxxix	23	Goldfussi Pfr.	Texas.
151			<i>pontifica</i> Gould = Macroceramus .	
152			<i>Aplodon nodosum</i> Raf.	
152			<i>Chimotrema planiuscula</i> Raf.	
152			<i>Hemiloma avara</i> Raf.	
152			<i>Mesodon maculatum</i> Raf.	
152			<i>Mesomphix</i> Raf.	
152			<i>Odotropis</i> Raf.	

Page.	Plate.	Fig.	Name.	Locality.
152			<i>Omphalina cuprea</i> Raf. = <i>Helix fuliginosa</i> ?	
152			<i>Stenostoma</i> Raf.	
152			<i>Stenotrema convexa</i> Raf.	
152			<i>Toxostoma globularis</i> Raf.	
152			<i>Toxotrema complanata</i> Raf.	
152			<i>Triodopsis lunula</i> Raf.	
152			<i>Trophodon</i> Raf.	
152			<i>Xolotrema lunula</i> Raf.	
152			<i>triodopsis</i> Raf.	
152			<i>Partula Otaheitana</i> Fer. (e. l.)	

Family Auriculacea.

156	lxxv	23	Melampus bidentatus Say.	Whole coast.
			<i>M. biplicatus</i> Pfr.	
			<i>corneus</i> Stimp.	
			<i>Jaumei</i> Pfr.	
			<i>lineatus</i> Beck.	
			<i>Auricula cornea</i> Desh.	
			<i>bidentata</i> Gould.	
			<i>Jaumei</i> Mittr.	
			<i>biplicata</i> Desh.	
			<i>Conovulus biplicatus</i> Beck.	
161	lxxv	12, 13	cingulatus Pfr.	Florida and W. I.
			<i>Auricula oliva</i> Orb.	
			<i>stenostoma</i> Küst.	
			&c. &c.	
162	lxxv	21, 25	cofea Linn.	Fla., Mex., & W. I.
			(Synonyms all foreign.)	
165	lxxv	30	Floridanus Pfr.	Florida.
			(Synonyms all foreign.)	
166			flavus Gmelin (cut).	Florida.
			(Synonyms all foreign.)	
167			obliquus Say.	South Carolina.
			<i>Auricula obliqua</i> De Kay.	
168	lxxv	29	pusillus Gmelin.	Florida.
			(Synonyms all foreign.)	
170			Redfieldi Pfr.	Florida?
171			<i>borealis</i> Conrad	} = Alexia myosotis.
171			<i>denticulatus</i> Stimp.	
171			<i>Auricula bidentata</i>	} = Melampus.
171			<i>biplicata</i>	
171			<i>cingulata</i>	
171			<i>coniformis</i>	
171			<i>cornea</i>	
172			<i>denticulata</i>	

Page.	Plate.	Fig.	Name.	Locality.
172			<i>Auricula Floridana</i> = Melampus.	
172			<i>Jaumei</i> = Melampus bidentatus.	
172			<i>nitens</i> = pusillus.	
172			<i>obliqua</i> = obliquus.	
172			<i>oliva</i> = cingulatus.	
172			<i>pusilla</i> = pusillus.	
172			<i>Sayii</i> = Leuconia.	
172			<i>stenostoma</i> = Melampus cingulatus.	
172	lxxv	33	Alexia myosotis Drap.	Mass., N. Y., R. I.
	lxxix	16	<i>Auricula denticulata</i> Gould.	
			<i>Melampus denticulatus</i> Stimp.	
			<i>borealis</i> Conrad.	
			<i>turritus</i> Say ined.	
175			Blauneria pellucida Pfr.	Florida, S. Carolina.
			<i>Achatina pellucida</i> Binney.	
			(Other synonyms foreign.)	
177	lxxv	34	Leuconia (?) Sayii Küster.	
			<i>Auricula Sayii</i> Küst.	
178			Carychium exiguum Say.	Whole country?
			<i>Pupa exigua</i> Say.	
			<i>Bulinus exiguus</i> Binney.	
			<i>C. exile</i> H. C. Lea.	
			<i>existelium</i> Bourg.	
			<i>euphæum</i> Bourg.	
183			<i>armigerum</i>	} = Pupa.
183			<i>contractum</i>	
183			<i>rupicolum</i>	
183			<i>corticarium</i>	

Family **Aciculacea.**

185	lxxv	2, 4	Truncatella Caribæensis Sowb.	Fla., Mexico, Ala.
			(Synonyms all foreign.)	
186	lxxv	5, 6, 8	subcylindrica Gray.	Florida.
188	lxxv	3, 7	bilabiata Pfr.	Florida.
189	lxxv	1, 9, 10	pulchella Pfr.	Florida.

Family **Cyclostomacea.**

191	lxxv	24	Chondropoma dentatum Say.	Florida.
			<i>Cyclostoma dentatum</i> Say.	
191			<i>Cyclostoma Cincinnatiensis</i> Lea	} = Amnicola.
191			<i>lapidaria</i> Say	
191			<i>marginalis</i> Kirt.	} = Bul. marginatus.
191			<i>marginata</i> Say	
191			<i>tricarinata</i> Say	= Valvata.

Family **Helicinacea.**

Age.	Plate.	Fig.	Name.	Locality.
02			Helicina chrysocheila Binney.	Tampico, Texas.
02	lxxv	14, 16	Hanleyana Pfr.	New Orleans.
03			occulta Say (fossil?)	Western States.
			<i>H. rubella</i> Green?	
03			orbiculata Say.	Georgia, Tenn., Ala.,
			<i>Olygyra orbiculata</i> Say.	Texas, &c.
			<i>H. vestita</i> Guild?	
			<i>castanea</i> Sowerby?	
04			tropica Ian. (pl. lxxiii part.)	Texas.
			<i>H. Ambeliana</i> Sowerby.	
05	lxxv	17	subglobulosa Pory.	Key Biscayne.
06			<i>fastigiata</i> De Kay	} = Helix.
05			<i>plicata</i> De Kay	

Tufts.—Catalogue of Shells deposited in the State Cabinet: by SAMUEL TUFTS, JR. (From Catalogue of Massachusetts State Cabinet—Appendix. Boston, 1859.)

No.		No.	
26	Teredo navalis.	85	57 Mesodesma arctata.
27	Pholas costata.	85	58 Jauresii.
11	crispata.	85	59 Montacuta bidentata.
28	Solen ensis.	85	60 Kellia rubra.
30	Solecurtus caribbæus.	85	61 Saxicava distorta.
33	Machæra nitida.	85	25 rugosa Stimpson.
34	costata.	85	63 Petricola pholadiformis.
35	Solemya velum.		
36	borealis.	85	66 Sanguinolaria fusca.
39	Glycymeris siliqua.	85	67 sordida.
40	Mya arenaria.	85	67 Tellina tenta.
42	truncata.	85	68 tenera.
43	Corbula contracta.	85	69 Lucina radula.
44	Pandora trilineata.	85	71 flexuosa.
45	Lyonsia hyalina.	86	72 Cyclas partumela.
47	Anatina papyracea.	86	74 elegans.
49	Cochlodesma Leana.	86	75 Pisidium dubium.
50	Thracia Conradi.	86	76 Astarte castanea.
23	Couthouyi.	86	78 sulcata.
22	truncata.	86	80 lactea.
51	Macra solidissima.	86	81 quadrans.
53	ovalis.	86	82 Cyprina Islandica.
54	lateralis.	86	84 Cytherea convexa.

No.	Sp.	No.	Sp.
20	<i>Venus mercenaria</i>	21	<i>Chiton apiculatus</i>
21	<i>reticulata</i>	22	<i>fuliginatus</i>
22	<i>perovna</i>	23	<i>ruber</i>
23	<i>Cardium Islandicum</i>	24	<i>albus</i>
24	<i>pinnulatum</i>	25	<i>Emarginatus</i>
25	<i>lucorum</i>	26	<i>Littia testudinella</i>
26	<i>Greenlandicum</i>	27	<i>alveus</i>
27	<i>Cordia borealis</i>	28	<i>Dentalium dentale</i>
28	<i>Arca persica</i>	29	<i>Camaria Neoborn</i>
29	<i>transversa</i>	30	<i>Crepidula fornicat</i>
30	<i>Strophia chlorostoma</i>	31	<i>plana</i>
31	<i>lanceata</i>	32	<i>convexa</i>
32	<i>mytila</i>	33	<i>Bella inscripta</i>
33	<i>apercilla</i>	34	<i>himalia</i>
34	<i>minuta</i>	35	<i>Gouldii</i>
35	<i>Jacksonii</i>	36	<i>dentata</i>
36	<i>prostrata</i>	37	<i>triticea</i>
37	<i>truncata</i>	38	<i>constricta</i>
38	<i>Ustr. rostrifera</i>	39	<i>crassa</i>
39	<i>truncata</i>	40	<i>limbata</i>
40	<i>radiata</i>	41	<i>Helix albidula</i>
41	<i>carinata</i>	42	<i>thyridica</i>
42	<i>ochracea</i>	43	<i>horrida</i>
43	<i>Alusconodon arcuata</i>	44	<i>tridentata</i>
44	<i>umbilata</i>	45	<i>monodon</i>
45	<i>marginata</i>	46	<i>lanceata</i>
46	<i>Anodon imbricata</i>	47	<i>quadrata</i>
47	<i>implicata</i>	48	<i>alternata</i>
48	<i>minuta</i>	49	<i>striatella</i>
49	<i>Mytilus edulis</i>	50	<i>lineata</i>
50	<i>Modiola modiolina</i>	51	<i>cellaria</i>
51	<i>picata</i>	52	<i>indented</i>
52	<i>pectinata</i>	53	<i>retroca</i>
53	<i>rexa</i>	54	<i>latyrincha</i>
54	<i>discrepans</i>	55	<i>retroca</i>
55	<i>discrepans</i>	56	<i>Papa</i>
56	<i>granulata</i>	57	<i>—</i>
57	<i>Pecten Magellanicus</i>	58	<i>Palanus ruber</i>
58	<i>laevis</i>	59	<i>Succinea ovata</i>
59	<i>concentrica</i>	60	<i>retroca</i>
60	<i>Ostrea borealis</i>	61	<i>avara</i>
61	<i>Anomia pulchrum</i>	62	<i>Auricula indentata</i>
62	<i>Pteropoda caput ser-</i>	63	<i>dentata</i>
63	<i>pentus</i>	64	<i>Planorbis involutus</i>
64	<i>patellaea</i>		

Pa. No.		Pa. No.	
87 202	<i>Planorbis lentus</i> .	88 261	<i>Lacuna vineta</i> .
87 203	<i>bicarinatus</i> .	88 263	var. <i>fusca</i> .
87 204	<i>campanulatus</i> .	88 263	<i>neritoidea</i> .
87 205	<i>armigerus</i> .	88 265	<i>Cingula minuta</i> .
87 206	<i>hirsutus</i> .	88 266	<i>aculeata</i> .
87 209	<i>parvus</i> .	88 267	<i>Turritella erosa</i> .
87 211	<i>Physa heterostropha</i> .	88 35	<i>acicula</i> <i>Stimpson</i> .
87 213	<i>ancillaria</i> .	88 269	<i>Pyramis striatula</i> .
87 214	<i>elongata</i> .	88 272	<i>Odostomia exigua</i> .
87 215	<i>Limnea columella</i> .	88 275	<i>Cerithium Emersonii</i> .
87 217	<i>macrostoma</i> .	88 278	<i>Sayii</i> .
87 218	<i>modicellus</i> .	88 279	<i>Greenii</i> .
87 219	<i>decidiosa</i> .	88	<i>Pleurotoma cerinum</i>
87 221	<i>elodes</i> .	88 280	<i>decussata</i> . [<i>Stimp</i>].
87 224	<i>Ancylus fuscus</i> .	88 283	<i>Cancellaria Couthouyi</i> .
87 224	<i>rivularis</i> .	88 284	<i>Fusus Islandicus</i> .
87 225	<i>Valvata tricarinata</i> .	88 285	<i>ventricosus</i> .
87 226	<i>pupoides</i> .	88 287	<i>decemcostatus</i> .
87 227	<i>Paludina decisa</i> .	88 288	<i>scalariformis</i> .
87 229	<i>Amnicola porata</i> .	88 289	<i>Bamffius</i> .
87 231	<i>Natica heros</i> .	88 290	<i>rufus</i> .
87 233	<i>triseriata</i> .	88 291	<i>harpularius</i> .
87 234	<i>immaculata</i> .	88 292	<i>turricula</i> .
87 235	<i>canaliculata</i> .	88 293	<i>muricatus</i> .
87 236	<i>duplicata</i> .	88 294	<i>Pyrula canaliculata</i> .
87 237	<i>pusilla</i> .	88 296	<i>carica</i> .
87 238	<i>clausa</i> .	88 297	<i>Ranella caudata</i> .
87 239	<i>flava</i> .	88 298	<i>Rostellaria occidentalis</i> .
87 240	<i>Janthina fragilis</i> .	88 300	<i>Trichotropis borealis</i> .
88 241	<i>Velutina lævigata</i> .	88 301	<i>Purpura lapillus</i> .
88 242	<i>zonata</i> .	88 303	<i>Buccinum plicosum</i> .
88 244	<i>Sigaretus haliotoideus</i> .	88 304	<i>Donovani</i> .
88 246	<i>Vermetus lumbricalis</i> .	88 305	<i>undatum</i> .
88 249	<i>Scalaria Grœnlandica</i> .	88 307	<i>ciliatum</i> .
88 252	<i>Margarita cinerea</i> .	88 308	<i>obsoletum</i> .
88 253	<i>obscura</i> .	88 309	<i>trivittatum</i> .
88 254	<i>undulata</i> .	88 310	<i>vibex</i> .
88 255	<i>arctica</i> .	88 311	<i>rosaceum</i> .
88 256	<i>argentata</i> .	88 312	<i>lunatum</i> .
88 257	<i>Littorina rudis</i> .	88 313	<i>Columbella avara</i> .
88 259	<i>tenebrosa</i> .		
88 260	<i>palliatæ</i> .		

Carpenter.—Report on the Present State of our Knowledge with regard to the Mollusca of the West Coast of North America: by PHILIP P. CARPENTER. (From the Report of the British Association for the Advancement of Science for 1856. London, 1857.)

[To this admirable Report I refer for the full synonymy, references, and dates of the species of the following list, which embodies the selected names only of the species of the "Northern Fauna" and "Gulf of California," omitting those of Central America, Panama, and Gallapagos. As stated in the preface, I have not given the same attention to the synonymy of the west coast species, the labor having been so thoroughly done by Mr. CARPENTER. The names of species about which any doubt exists are included in parentheses. I omit the Bryozoa.—W. G. B.]

I. ARCTIC FAUNA.

CLASS PALLIOBRANCHIATA.

Page.	Page.
298	<i>Rhynchonella psittacea.</i>

CLASS LAMELLIBRANCHIATA.

299	<i>Saxicava pholadis.</i>	305	<i>Venus (Astartoides).</i>
299	<i>Petricola gibba.</i>	306	<i>Astarte (corrugata).</i>
299	<i>cylindracea.</i>	307	<i>Cardium Californiense.</i>
299	<i>Saxidomus gigantea.</i>	307	<i>Nuttalli.</i>
299	<i>Petitii.</i>	309	<i>Mytilus edulis.</i>
300	<i>Mya arenaria.</i>	309	<i>Modiola cultellus.</i>
300	<i>Lutraria maxima.</i>	309	<i>modiolus.</i>
301	<i>Machæra costata.</i>	310	<i>Pectunculus septentrio-</i>
301	<i>Tellina solidula.</i>		<i>nalis.</i>
301	<i>(lata).</i>	310	<i>Nucula castrensis.</i>
301	<i>(lutea).</i>	311	<i>Pecten rubidus.</i>
301	<i>edentula.</i>	312	<i>Placunanomia patellifor-</i>
302	<i>nasuta.</i>		<i>mis.</i>
304	<i>Mactra (ovalis).</i>	312	<i>(macrochisma).</i>

CLASS GASTEROPODA.

313	<i>Dendronotus arborescens.</i>	317	<i>Tonicia Brandtii.</i>
313	<i>Æolis pinnata.</i>	317	<i>Sitchensis.</i>
313	<i>Flabellina crassicornis.</i>	317	<i>Eschscholtzii.</i>
313	<i>subrosacea.</i>	317	<i>Merckii.</i>
317	<i>Dentalium politum.</i>	317	<i>insignis.</i>
317	<i>Lepidochiton lividus.</i>	317	<i>lineata.</i>

Page.		Page.	
318	<i>Katherina submarmorea</i> .	327	<i>Lacuna glacialis</i> .
318	<i>tunicata</i> .	328	<i>Trichotropis (bicarinata)</i> .
318	<i>Cryptochiton Stelleri</i> .	328	<i>cancellata</i> .
318	[Gen. indet.] <i>Wosnessenskii</i> .	328	<i>insignis</i> .
318	<i>Nacella Asmi</i> .	328	<i>inermis</i> .
319	<i>Acmaea personoides</i> .	329	<i>Admete viridula</i> .
319	<i>pileolus</i> .	329	<i>arctica</i> .
319	<i>digitalis</i> .	336	<i>Scalaria Groenlandica</i> .
319	<i>cassis</i> .	336	<i>Natica clausa</i> .
319	<i>pelta</i> .	336	<i>Lunatia flava</i> .
319	<i>patina</i> .	337	<i>Velutina coriacea</i> .
319	<i>persona</i> .	337	<i>spongiosa</i> .
319	<i>Scurria mitra</i> .	337	<i>Sitchensis</i> .
319	<i>Fissurella (violacea)</i> .	338	(<i>Argobuccinum</i>) <i>cancellata</i> .
320	<i>Glyphis aspera</i> .	338	<i>scabrum</i> . [tum.
320	<i>Haliotis aquatilis</i> .	340	<i>Purpura Freycinetii</i> .
320	<i>Kamtschatkiana</i> .	340	(<i>decemcostata</i>).
320	<i>Callopoma (Fokkesii)</i> .	340	<i>lapillus</i> .
321	<i>Osilius ater</i> .	340	<i>septentrionalis</i> .
321	<i>Omphalius modestus</i> .	342	<i>Buccinum tenebrosus</i> .
321	<i>moestus</i> .	342	(<i>ovum</i>).
321	<i>euryomphalus</i> .	342	<i>Bulla ampullacea</i> .
321	<i>Margarita arctica</i> .	343	<i>Chrysodomus Sabinii</i> .
321	<i>striata</i> .	343	(<i>antiquus</i>).
321	<i>sulcata</i> .	343	(<i>deformis</i>).
321	<i>callostoma</i> .	343	(<i>Islandicus</i>).
323	<i>Crepidula (grandis)</i> .	343	(<i>Behringii</i>).
323	<i>Sitchana</i> .	343	(<i>Baeri</i>).
323	<i>minuta</i> .	343	<i>Sitchensis</i> .
325	<i>Turritella Eschrichtii</i> .	343	<i>luridus</i> .
326	<i>Littorina Kurila</i> .	343	<i>Trophon clathratum</i> .
326	<i>Sitchana</i> .	345	(<i>Cerastoma</i>) <i>monodon</i> .
326	<i>modesta</i> .	345	(<i>Muricidea</i>) <i>lactuca</i> .
326	[<i>aspera</i>].		

CLASS CEPHALOPODA.

345	<i>Octopus</i> ———.	345	<i>Onychoteuthis (Bergii)</i> .
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II. OREGON FAUNA.

CLASS PALLIOBRANCHIATA.

298	<i>Terebratula pulvinata</i> .	298	<i>Terebratula canrena</i> .
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CLASS LAMELLIBRANCHIATA.

Page.		Page.	
299	<i>Petricola cylindracea</i> .	308	<i>Cyclas patella</i> .
299	<i>Saxidomus Nuttalli</i> .	308	<i>egregia</i> .
300	<i>Mya præcisa</i> .	309	<i>Unio famelicus</i> .
300	<i>Panopæa generosa</i> .	309	<i>Alasmodon falcata</i> .
300	<i>Lyonsia bracteata</i> .	309	<i>Anodon feminalis</i> .
301	(<i>picta</i>).	309	<i>Oregonensis</i> .
301	<i>Solen sicarius</i> .	309	<i>Wahlamatensis</i> .
301	<i>maximus</i> .	309	<i>cognata</i> .
301	<i>Machæra Nuttalli</i> .	309	<i>Nuttalliana</i> .
301	<i>Sanguinolaria Californiana</i> .	309	<i>Mytilus edulis</i> .
301	<i>Tellina edentula</i> .	309	(<i>Californianus</i>).
302	<i>nasuta</i> .	309	<i>Modiola modiolus</i> .
302	(<i>inquinata</i>).	309	<i>elongata</i> .
302	<i>Californica</i> .	309	<i>fiabellata</i> .
302	<i>Bodegensis</i> .	309	<i>Crenella discrepans</i> .
302	<i>secta</i> .	310	<i>Pectunculus septentrionalis</i> .
304	<i>Macra falcata</i> .	311	<i>Pecten Fabricii</i> . [lis.
305	<i>Venus calcarea</i> .	311	<i>caurinus</i> .
305	<i>ampliata</i> .	311	<i>hericeus</i> .
305	—.	311	<i>Townsendi</i> .
305	<i>rigida</i> .	312	<i>Ostrea ? conchaphila</i> .
306	<i>Cardita ventricosa</i> .	312	<i>Placunanomia cepio</i> .
307	<i>Cardium Nuttalli</i> .	312	<i>alope</i> .
307	<i>blandum</i> .	312	<i>Anomia lampe</i> .

CLASS GASTEROPODA.

313	<i>Doris</i> —.	314	<i>Helix Kelletti</i> .
313	<i>Goniodoris</i> —.	314	<i>tudiculata</i> .
313	<i>Dendronotus</i> —.	314	<i>Columbiana</i> .
313	<i>Æolis</i> —.	314	<i>Townsendiana</i> .
313	<i>Chloræra leonina</i> .	314	<i>Californiensis</i> .
313	<i>Haminea</i> —.	314	<i>areolata</i> .
313	<i>Limax Columbianus</i> .	315	<i>Succinea rusticans</i> .
313	<i>Arion foliolatus</i> .	315	<i>Oregonensis</i> .
314	<i>Helix Oregonensis</i> .	316	<i>Limnæa lepida</i> .
314	<i>labiosa</i> .	316	<i>apicina</i> .
314	<i>loricata</i> .	316	<i>Nuttalliana</i> .
314	<i>Baskervillei</i> .	316	<i>ferruginea</i> .
314	<i>fidelis</i> .	316	<i>umbrosa</i> .
314	<i>strigosa</i> .	316	<i>Physa bullata</i> .
314	<i>sportella</i> .	316	—.
314	<i>Vancouverensis</i> .	316	<i>Planorbis vermicularis</i> .
314	<i>germana</i> .	316	<i>corpulentus</i> .
314	<i>Pandoræ</i> .	316	<i>subcrenatus</i> .

	Page.	
is opercularis.	325	Melania plicifera.
um ———.	325	bulbosa.
iton interstinctus.	325	plicata.
muscosus.	326	Litorina lepida.
a vespertina.	326	scutellata.
ina Douglasiæ.	327	Lacuna carinata.
chiton Stelleri.	328	Trichotropis borealis.
det.] lignosus.	331	Bela fidicula.
tiens.	335	Cerithiopsis filosa.
instabilis.	336	Scalaria australis.
pelta.	336	———.
sona.	336	Lunatia caurina.
tilina.	336	impervia.
briata.	336	Lewesii.
oraria.	336	algida.
otrum.	337	Polinices perspicua.
mitra.	337	Triton (tigrinus).
cratitia.	338	(Argobuccinum) Oregon-
rella cucullata.	339	Olivella ———. [ensc.
eata.	340	Purpura lapillus.
s ———.	340	septentrionalis.
s annulatus.	340	ostrina.
inus) filiosus.	340	lagna.
ia).	341	Columbella gausapata.
cus Norrisii.	342	Buccinum corrugatum.
(pica).	342	Nassa mendica.
fastigiatus.	342	fossata.
la ? nummaria.	343	Trophon Orpheus.
triformis.	343	corrugatum.
ulata.	343	cancellinum.
silicula.	345	(Cerastoma) foliatum.

II. UPPER CALIFORNIA FAUNA.

CLASS **PALLIOBRANCHIATA.**

Evansii.	298	Waldheimia (Californica).
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CLASS **LAMELLIBRANCHIATA.**

idea penita.	299	Saxidomus Nuttalli.
olas Californica.	300	Lutraria maxima.
ra pholadis.	300	Platyodon cancellata.
la cylindracea.	300	Cryptodon Nuttalli.
ifornica.	300	Sphænia Californica.
ria lamellifera.	300	Corbula polychroma.
mus Petiti.	300	(bicarinata).

Page.		Page.	
300	<i>Corbula (nasuta).</i>	307	<i>Chama exogyra.</i>
300	<i>Thracia curta.</i>	307	<i>pellucida.</i>
300	<i>Lyonsia Californica.</i>	307	<i>fr. Mexicana.</i>
301	<i>Mytilimeria Nuttalli.</i>	307	<i>Cardium Californiense.</i>
301	<i>Pandora punctata.</i>	307	<i>Nuttalli.</i>
301	<i>Machæra Nuttalli.</i>	307	<i>quadragenarium.</i>
301	<i>lucida.</i>	307	<i>(Laperoussii).</i>
301	<i>Solecurtus subteres.</i>	308	<i>Diplodonta orbella.</i>
301	<i>Californianus.</i>	308	<i>Kellia Laperousii.</i>
301	<i>Sanguinolaria grandis.</i>	309	<i>Alasmodon falcata.</i>
301	<i>rubroradiata.</i>	309	<i>Anodon cognata.</i>
302	<i>Tellina Bodegensis.</i>	309	<i>Nuttalliana.</i>
302	<i>secta.</i>	309	<i>angulata.</i>
302	<i>alta.</i>	309	<i>Mytilus edulis.</i>
303	? <i>Scrobicularia biangularis.</i>	309	<i>Californianus.</i>
304	<i>Cumingia Californica.</i>	309	<i>bifurcatus.</i>
304	<i>Donax flexuosus.</i>	309	<i>glomeratus.</i>
304	<i>Californicus.</i>	309	<i>Modiola recta.</i>
304	<i>rostratus.</i>	309	<i>nitens.</i>
304	<i>gracilis.</i>	309	<i>capax.</i>
304	<i>Mactra Californica.</i>	309	<i>Lithophagus Gruneri.</i>
304	<i>planulata.</i>	310	<i>Byssosarca (gradata).</i>
305	<i>Trigona tantilla.</i>	310	<i>Pectunculus (inæqualis).</i>
305	<i>crassatelloides.</i>	311	<i>Nucula cælata.</i>
305	<i>Dosinia callosa.</i>	311	<i>Leda (polita).</i>
305	<i>Venus rigida.</i>	311	<i>Isognomon costellatum.</i>
305	<i>Nuttalli.</i>	311	<i>Pecten latiauritus.</i>
306	? <i>Tapes diversa.</i>	312	<i>Ostrea ———.</i>
306	<i>tumida.</i>	312	<i>conchaphila.</i>
306	<i>straminea.</i>	312	<i>Placunanomia macroschis-</i>
306	<i>Trapezium Californicum.</i>	312	<i>Anomia lampe.</i> [ma.

CLASS GASTEROPODA.

313	<i>Bulla nebulosa.</i>	314	<i>Helix infumata.</i>
313	<i>Tornatina culcitella.</i>	314	<i>levis.</i>
313	<i>cerealis.</i>	314	<i>vecillata.</i>
314	<i>Helix tudiculata.</i>	314	<i>Sagraiana.</i>
314	<i>Columbiana.</i>	314	<i>æruginea.</i>
314	<i>Townsendiana.</i>	315	<i>Succinea ———.</i>
314	<i>Californiensis.</i>	316	<i>Limnæa umbrosa.</i>
314	<i>areolata.</i>	316	<i>Physa humerosa.</i>
314	<i>vineta.</i>	316	<i>virginica.</i>
314	<i>loricata.</i>	316	<i>virgata.</i>
314	<i>Nickliniana.</i>	316	<i>Planorbis opercularis</i>
314	<i>Dupetithouarsii.</i>	316	<i>ammon.</i>

	Page.	
Planorbis gracilentus.	321	Omphalius Pfeifferi.
Lophyrus (Stokesii).	321	fuscescens.
Lepidochiton Mertensii.	321	marginatus.
scrobiculatus.	321	maculosus.
Tonicia lineata.	321	aureotinctus.
Chiton scaber.	323	Crucibulum spinosum.
Mopalia Simpsonii.	323	Galerus (mammillaris).
Cryptochiton Stelleri.	323	Crepidula ———.
[Gen. indet.] Wosnessenskii.	323	explanata.
Nuttalli.	323	solida.
Californicus.	323	aculeata.
acutus.	323	incurva.
consimilis.	323	rugosa.
Montereyensis.	324	Aletes squamigerus.
Hartwegii.	324	Spiroglyphus ———.
regularis.	325	Bittium ———.
Acmaea pelta.	325	Cerithidea sacrata.
patina.	325	Melania Wahlamatensis.
cribraria.	325	occata.
spectrum.	325	Amnicola protea.
toreuma.	325	longinqua.
grandis.	326	Bithinia seminalis.
scabra.	326	nuclea.
æruginosa.	326	Litorina modesta.
Scurria mitra.	326	planaxis.
Fissurella (violacea).	326	plena.
ornata.	326	(aspera).
volcano.	327	Lacuna unifasciata.
Glyphis densiclathrata.	328	Radius variabilis.
Lincolni.	328	Luponia spadicea.
Lucapina crenulata.	328	Trivia Californica.
Haliotis rufescens.	328	Erato lucophæa.
corrugata.	328	columbella.
splendens.	332	Clathurella (bella).
Californiensis.	332	Conus ravus.
Cracherodii.	332	(comptus).
Phasianella compta.	333	Odostomia grvida.
Callopoma Fokkesii.	334	Chemnitzia tenuicula.
Pomaulax undosus.	334	torquata.
Trochus annulatus.	336	Natica ? maroccana.
(Ziziphinus) filiosus.	336	var. Californica.
Antonii.	336	Lunatia herculæa.
Osilius ater.	337	Neverita Recluziana.
Omphalius mæstus.	338	(Argobuccinum) scabrum.
euryomphalus.	338	Mitra maura.

Page.		Page.	
339	<i>Marginella Jewettii</i> .	341	<i>Monoceros</i> (brevidenta-
339	(imbricata).	341	<i>Nitidella Gouldii</i> . [tum).
339	<i>Olivella rufofasciata</i> .	341	<i>Columbella Santa Barba-</i>
339	biplicata.	341	carinata. [rensis.
340	<i>Purpura macrostoma</i> .	342	<i>Truncaria</i> (modesta).
340	harpa.	342	<i>Buccinum Poulsoni</i> .
340	emarginata.	342	<i>Nassa fossata</i> .
340	<i>Monoceros engonatum</i> .	342	perpinguis.
340	brevidens.	345	(<i>Cerastoma</i>) <i>Nuttalli</i> .
340	lapilloides.		

IV. LOWER CALIFORNIA FAUNA.

CLASS **PALLIOBRANCHIATA.**298 *Lingula albida*.CLASS **LAMELLIBRANCHIATA.**

299	<i>Pholadidea penita</i> .	305	<i>Venus Nuttalli</i> .
299	ovoidea.	305	excavata.
299	<i>Parapholas Californica</i> .	305	simillima.
299	<i>Saxicava pholadis</i> .	305	fructifrago.
299	<i>Petricola Californica</i> .	305	dispar.
299	<i>Rupellaria lamellifera</i> .	305	Californiensis.
299	<i>Saxidomus Nuttalli</i> .	306	? <i>Tapes straminea</i> .
300	<i>Platyodon cancellata</i> .	306	gracilis.
300	<i>Sphænia Californica</i> .	306	<i>Trapezium Californicum</i> .
300	<i>Lyonsia</i> (nitida).	307	<i>Chama exogyra</i> .
301	<i>Periploma argentaria</i> .	307	pellucida.
301	<i>Solecurtus subteres</i> .	307	<i>Cardium Californiense</i> .
301	Californianus.	307	Nuttalli.
301	<i>Sanguinolaria Nuttalli</i> .	307	substriatum.
301	miniata.	307	luteolabrum.
301	<i>Psammobia Pacifica</i> .	307	cruentatum.
302	<i>Tellina nasuta</i> .	307	elatum.
302	secta.	307	<i>Lucina bella</i> .
302	vicina.	307	Californica.
302	pura.	307	Nuttalli.
303	<i>Strigilla carnaria</i> .	307	punctata.
303	<i>Semele rubrolineata</i> .	308	<i>Diplodonta orbella</i> .
303	decisa.	309	<i>Mytilus Californianus</i> .
303	flavescens.	309	<i>Modiola capax</i> .
304	<i>Cumingia Californica</i> .	309	<i>Lithophagus attenuatus</i> .
304	<i>Donax (obesus)</i> .	310	<i>Byssoarca pernoides</i> .
304	<i>Mactra nasuta</i> .	311	<i>Pecten latiauritus</i> .
305	<i>Trigona crassatelloides</i> .	311	floridus.

Page.		Page.	
311	<i>Pecten purpuratus.</i>	312	<i>Ostrea conchaphila.</i>
312	<i>Hinnites giganteus.</i>	312	<i>palmula.</i>

CLASS GASTEROPODA.

313	<i>Bulla nebulosa.</i>	324	<i>Petalocochus macro-</i> <i>phragma.</i>
313	<i>virescens.</i>	325	<i>Cerithium stercusmusca-</i>
313	<i>longinqua.</i>	325	<i>Cerithidea sacrata. [rum.</i>
313	<i>Haminea vesicula.</i>	325	<i>pullata.</i>
313	<i>Tornatina inculca.</i>	325	<i>albonodosa.</i>
314	<i>Helix Kelletti.</i>	326	<i>Littorina ? fasciata.</i>
314	<i>tudiculata.</i>	328	<i>Radius (Californica).</i>
314	<i>Bulimus pallidior.</i>	328	<i>Erato vitellina.</i>
315	<i>Melampus olivaceus.</i>	329	<i>Cancellaria funiculata.</i>
316	<i>Physa virgata.</i>	329	<i>ventricosa.</i>
317	<i>Lepidopleurus Magdalen-</i>	330	<i>(Myurella) armillata.</i>
318	<i>Mopalia Blainvillei. [sis.</i>	330	<i>Pleurotoma gemmata.</i>
318	<i>[Gen. indet.] ornatus.</i>	330	<i>Drillia inermis.</i>
318	<i>Nacella depicta.</i>	330	<i>plumbea.</i>
318	<i>incessa.</i>	330	<i>luctuosa.</i>
319	<i>Acmaea patina.</i>	332	<i>Mangelia plumbea.</i>
319	<i>persona.</i>	332	<i>Conus Californicus.</i>
319	<i>spectrum.</i>	333	<i>Solarium placendale.</i>
319	<i>grandis.</i>	337	<i>Polinices ? uber.</i>
319	<i>scabra.</i>	338	<i>(Argobuccinum ? scabrum.)</i>
319	<i>mesoleuca.</i>	338	<i>Ranella triquetra.</i>
319	<i>fascicularis.</i>	338	<i>Californica.</i>
319	<i>Scurria mitra.</i>	338	<i>muriciformis.</i>
319	<i>Fissurella volcano.</i>	339	<i>Olivella (glandinaria).</i>
320	<i>Haliotis (Kamtschatki-</i>	340	<i>Purpura emarginata.</i>
320	<i>splendens. [ana.)</i>	340	<i>Rhizocheilus foveolata.</i>
320	<i>Californiensis.</i>	340	<i>Vitularia Belcheri.</i>
320	<i>Cracherodii.</i>	340	<i>Pseudoliva Kelletti.</i>
320	<i>Phasianella compta.</i>	341	<i>(lugubris).</i>
320	<i>Callopoma (Fokkesii).</i>	341	<i>Nitidella Californica.</i>
320	<i>(Ziziphinus) filous.</i>	341	<i>Columbella carinata.</i>
321	<i>Osilius (gallinus).</i>	341	<i>Californiana.</i>
321	<i>Omphalius mcestus.</i>	342	<i>Nassa fossata.</i>
321	<i>aureotinctus.</i>	342	<i>perpinguis.</i>
321	<i>brunneus.</i>	342	<i>tegula.</i>
323	<i>Crucibulum spinosum.</i>	345	<i>(Pteronotus) festivus.</i>
323	<i>Crepidula incurva.</i>	345	<i>(Muricidea) perita.</i>
324	<i>Hipponyx Grayanus.</i>		
324	<i>Aletes squamigerus.</i>		

V. GULF OF CALIFORNIA FAUNA.

CLASS **PALLIOBRANCHIATA.**

Page.

Page.

298 *Discina Cumingii*.CLASS **LAMELLIBRANCHIATA.**

- | | |
|------------------------------------|---------------------------------------|
| 299 <i>Pholadidea melanura</i> . | 301 <i>Periploma Leana</i> . |
| 299 <i>curta</i> . | 301 <i>planiuscula</i> . |
| 299 <i>Parapholas calva</i> . | 301 <i>excurvata</i> . |
| 299 <i>acuminata</i> . | 301 <i>papyracea</i> . |
| 299 <i>Martesia intercalata</i> . | 301 <i>Pandora claviculata</i> . |
| 299 <i>Gastrochaena truncata</i> . | 301 <i>Solecurtus politus</i> . |
| 299 <i>ovata</i> . | 301 ———. |
| 299 <i>Saxicava ? arctica</i> . | 301 <i>affinis</i> . |
| 299 <i>Petricola dactylus</i> . | 301 <i>Sanguinolaria miniata</i> . |
| 299 <i>denticulata</i> . | 301 <i>tellinoides</i> . |
| 299 <i>ventricosa</i> . | 301 <i>Psammobia Kindermanni</i> . |
| 299 ———. | 301 ———. |
| 299 <i>robusta</i> . | 302 <i>Tellina pura</i> . |
| 299 <i>pholadiformis</i> . | 302 <i>gemma</i> . |
| 299 <i>Rupellaria foliacea</i> . | 302 <i>Mazatlanica</i> . |
| 299 <i>paupercula</i> . | 302 <i>Broderipii</i> . |
| 299 <i>lingua-felis</i> . | 302 <i>straminea</i> . |
| 299 <i>exarata</i> . | 302 <i>donacilla</i> . |
| 299 ———. | 302 <i>regularis</i> . |
| 300 <i>? Naranio scobina</i> . | 302 <i>lamellata</i> . |
| 300 ———. | 302 <i>delicatula</i> . |
| 300 <i>Mya ? ———</i> . | 302 <i>denticulata</i> . |
| 300 <i>Sphaenia fragilis</i> . | 302 ——— (3 sp.) |
| 300 ——— (2 sp.) | 302 <i>rufescens</i> . |
| 300 <i>Corbula polychroma</i> . | 302 <i>eburnea</i> . |
| 300 ——— (2 sp.) | 302 <i>Dombei</i> . |
| 300 <i>bicarinata</i> . | 302 <i>punicea</i> . |
| 300 <i>tenuis</i> . | 302 <i>felix</i> . |
| 300 <i>obesa</i> . | 302 <i>Cumingii</i> . |
| 300 <i>biradiata</i> . | 302 <i>puella</i> . |
| 300 <i>? ovulata</i> . | 302 <i>brevirostris</i> . |
| 300 <i>pustulosa</i> . | 303 <i>Strigilla carnaria</i> . |
| 300 <i>ventricosa</i> . | 303 <i>lenticula</i> . |
| 300 <i>Thracia squamosa</i> . | 303 <i>pisiformis</i> . |
| 300 <i>Tyleria fragilis</i> . | 303 <i>dichotoma</i> . |
| 300 <i>Lyonsia ———</i> . | 303 <i>ervilia</i> . |
| 301 <i>diaphana</i> . | 303 <i>Tellidora Burneti</i> . |
| 301 <i>picta</i> . | 303 <i>? Scrobicularia producta</i> . |

Page.		Page.	
303	<i>Semele flavescens.</i>	305	<i>Venus reticulata.</i>
303	<i>Californica.</i>	305	<i>undatella.</i>
303	? <i>venusta.</i>	305	— (2 sp.)
304	<i>Cumingia Californica.</i>	306	? <i>crenifera.</i>
304	<i>lamellosa.</i>	306	<i>Columbiensis.</i>
304	<i>trigonularis.</i>	306	<i>amathusia.</i>
304	—	306	<i>gnidia.</i>
304	<i>Iphigenia lævigata.</i>	306	<i>distans.</i>
304	<i>altior.</i>	306	<i>multicostata.</i>
304	<i>Donax rostratus.</i>	306	<i>Anomalocardia subimbri-</i>
304	<i>Carpenteri.</i>	306	<i>subrugosa.</i> [cata.
304	<i>transversus.</i>	306	? <i>Tapes squamosa.</i>
304	<i>punctatostriatus.</i>	306	<i>histrionica.</i>
304	<i>Conradi.</i>	306	<i>grata.</i>
304	<i>carinatus.</i>	306	<i>Gouldia varians.</i>
304	<i>assimilis.</i>	306	<i>Pacifica.</i>
304	<i>navicula.</i>	306	<i>Circe margarita.</i>
304	<i>Mactra pallida.</i>	306	<i>subtrigona.</i>
304	<i>goniata.</i>	306	<i>Trapezium</i> —.
304	<i>fragilis.</i>	306	<i>Cardita Californica.</i>
304	<i>Californica.</i>	307	<i>Venericardia</i> —.
304	<i>exoleta.</i>	307	<i>Chama exogyra.</i>
304	<i>angulata.</i>	307	fr. <i>Mexicana.</i>
304	<i>elegans.</i>	307	<i>spinosa.</i>
304	<i>Gnathodon mendicus.</i>	307	<i>Cardium elatum.</i>
305	? <i>Clementia gracillima.</i>	307	<i>alabastrum.</i>
305	<i>Trigona (crassatelloides).</i>	307	<i>rotundatum.</i>
305	<i>humilis.</i>	307	— (7 sp. ind.)
305	<i>argentina.</i>	307	<i>graniferum.</i>
305	<i>radiata.</i>	307	(<i>maculosum</i>).
305	<i>planulata.</i>	307	? <i>senticosum.</i>
305	<i>Dosinia Annæ.</i>	307	<i>Belcheri.</i>
305	<i>ponderosa.</i>	307	<i>procerum.</i>
305	<i>Dunkeri.</i>	307	<i>Lucina punctata.</i>
305	<i>Cyclina subquadrata.</i>	307	<i>annulata.</i>
305	<i>Dione brevispinosa.</i>	307	? <i>muricata.</i>
305	<i>lupinaria.</i>	308	<i>excavata.</i>
305	<i>circinata.</i>	308	<i>pectinata.</i>
305	<i>concinna.</i>	308	<i>cancellaris.</i>
305	<i>rosea.</i>	308	<i>Mazatlanica.</i>
305	<i>chionæa.</i>	308	<i>prolongata.</i>
305	<i>aurantia.</i>	308	— (3 sp.)
305	<i>vulnerata.</i>	308	<i>fenestrata.</i>
305	<i>Cythærea petechialis.</i>	308	<i>eburnea.</i>
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308	obliqua.	310	fusca.
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308	Kellia suborbicularis.	310	Pacifica.
308	Lasea ? rubra.	310	mutabilis.
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308	Lepton Clementinum.	310	bicolor.
308	Dionæum.	310	parcipictus.
308	umbonatum.	310	? multicostatus.
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308	———.	311	Pinna lanceolata.
308	Cyrena olivacea.	311	maura.
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308	insignis.	311	Avicula sterna.
309	subquadrata.	311	(Margaritiphora Mazat
309	(Anodon ciconia).	311	Isognomon Chemnitz
309	Mytilus multiformis.	311	Janus. [
309	palliopunctatus.	311	Pecten circularis.
309	Septifer Cumingianus.	311	dentatus.
309	Modiola capax.	311	nodosus.
309	Braziliensis.	311	—— (2 sp.)
309	Crenella coarctata.	311	subnodosus.
309	Lithophagus attenuatus.	311	Lima tetrica.
309	calyculatus.	312	Spondylus ———
309	cinnamomeus.	312	calcifer.
310	aristatus.	312	Plicatula penicillata.
310	plumula.	312	Ostrea conchaphila.
310	Leiosolenus spatiosus.	312	palmula.
310	———.	312	Cumingiana.
310	Arca bifrons.	312	———.
310	cardiiformis.	312	Columbiensis.
310	—— (2 sp.)	312	Virginica.
310	brevifrons.	312	iridescens.
310	multicostata.	312	Placunanomia clavicu
310	labiata.	312	pernoides.
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313	<i>Glandina Albersi</i> .	319	<i>vespertina</i> .
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314	<i>Bulimus Ziegleri</i> .	319	<i>mitella</i> .
314	<i>zebra</i> .	319	<i>Scutellina navicelloides</i> .
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317	<i>albolineatus</i> .	320	<i>Bankivia</i> (<i>varians</i>).
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317	<i>bullatus</i> .	321	<i>viridulus</i> .
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322	<i>Teinostoma amplectans</i> .	324	<i>heptagonum</i> .
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323	<i>Crucibulum spinosum</i> .	324	<i>glabriforme</i> .
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336	<i>Cirsotrema</i> <i>funiculata</i> .	339	<i>p. aureocincta</i> .
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vii 2	<i>Avicula sterna</i> Gould.	viii 2	<i>unguiformis</i> .
vii 3	<i>Gadinia pentagonios-</i>	viii 3	<i>aculeata</i> .
	<i>toma</i> .		<i>Calyptrea echinus</i> .
vii 4	<i>Glyphis inæqualis</i> .		<i>histris</i> .
	<i>Fissurella pica</i> .		<i>Crepidula costata</i> M.
	<i>mus</i> .		non ?
vii 5	<i>Fissurella rugosa</i> .		<i>Californica</i> .
	<i>F. chlorotrema</i> .	viii 4	<i>Lophyrus articulatus</i> .
	<i>humilis</i> . [Rv.	viii 5	<i>Fissurella virescens</i> .
	<i>viminea</i> Mke. non		

Pl.	Fig.		Pl.	Fig.	
ix	1	Crucibulum imbricatum.			<i>Calyptræa tubifera.</i>
		<i>Patella scutellata.</i>			<i>Calypeopsis auriculata.</i>
		<i>Calypeopsis rugosa.</i>			<i>tenuis.</i>
		<i>Dyspotæa dentata.</i>			<i>hispida.</i>
		<i>Calyptræa extensorium</i>			<i>maculata.</i>
		Sby. non Lam.			<i>quiriquina.</i>
		<i>rugosa.</i>			<i>Byronensis.</i>
ix	2	Crepidula indorsata.			<i>rugosa.</i>
		var. bilobata.			<i>lignaria.</i>
ix	3	Crucibulum spinosum.	ix	4	Cæcum undatum.
		<i>Patella Peziza.</i>	ix	5	Neritina cassiculum.

Conrad.—In the Advocate of Science and Annals of Natural History, vol. i, No. 2, September, 1834, Philadelphia. By T. A. CONRAD, are—

Page.	Name.	Locality.
58	Notes on <i>Rangia Cyrenoides.</i>	Mobile.

Rafinesque.—Conchology: a new Tubular Fresh-water Shell of the Alleghany Mountains: by C. S. RAFINESQUE. (From Atlantic Journal and Friend of Knowledge, No. 3, page 121. Philadelphia, 1832.)

Page.	Name.	Locality.
122	Psephides Raf. (n. g.).	
122	<i>parodoxa Raf.</i>	Sherman creek, Perry Co., Pa.
	(Wood-cut on page 121.)	

Rafinesque.—Odatelia: new genus of North American Fluvial Bivalve Shells: by C. S. RAFINESQUE. (From the same, No. 4, 1832.)

Page.	Name.	Page.	Name.
154	Odatelia Raf. (n. g.)		<i>Unio dehiscens Say.</i>
154	<i>radiata Raf.</i>		<i>Anodonta prelonga Green.</i>
	<i>Unio oriens Lea.</i>		

C. B. Adams.—(In Silliman's Journal, o. s., vol. xlv, No. 2. Jan.—March, 1843.)

Page.	Name.	Locality.
420	Periploma trapezoides Desh.	Mobile bay.
	<i>Thracia inequalis.</i>	

Anonymous.—Mr. Lea on the Naiades, in the Transactions of the American Philosophical Society. (From Silliman's Journal, o. s., vol. xxii, No. 1, pp. 169-179. July, 1832.)

[No descriptions or synonymy are given, but a repetition of Mr. LEA's Synopsis.—W. G. B.]

Anonymous.—Observations on the Genus Unio, &c., by I. Lea, in the Transactions of the American Philosophical Society. (From Silliman's Journal, o. s., vol. xxvii, No. 2, pp. 371-377. 1835.)

[Extracts from the paper criticized are given, but no new descriptions or synonymy.—W. G. B.]

Anonymous.—Observations, &c., from the Transactions of the American Philosophical Society, vol. vi, No. 1. (From Silliman's Journal, o. s., vol. xxxv, p. 184. 1839.)

[This is a mere notice of one of Mr. LEA's papers, without criticisms or descriptions, with a list of species described.—W. G. B.]

Haldeman.—Correction to the article on Melanians (vol. xli, p. 21): by S. S. HALDEMAN. (From Silliman's Journal, o. s., vol. xlii. December, 1841.)

Page.		Page.	
216	<i>Melania undulata</i> Say.	216	<i>Trochlea</i> Hald. (n. g.)
216	<i>Nerita aurita</i> Müll. = n. g.		(<i>Planaria</i> Capt. Brown.)
	<i>Claviger.</i>	216	<i>alba</i> Brown.
216	<i>Claviger aurita.</i>	216	<i>nitens</i> Lea.
216	<i>tuberculosa.</i>		

Couthouy.—Notes on the following: by J. P. COUTHOUY. (From Silliman's Journal, o. s., vol. xxxvi, No. 2. April-July, 1839.)

Page.		Page.	
381	<i>Patelloidea</i> (Lottia).	381	<i>Patelloidea cærulea.</i>
381	<i>amœna</i> Say.		Europe.
381	<i>alveus</i> Conrad.	381	<i>pellucida.</i> Europe.

W. Whittemore.—(From the same.)

Page.	Name.	Locality.
381	<i>Planorbis armigerus</i> .	Cambridge.
381	<i>Cyolas similis</i> .	Cambridge.
381	<i>Physa heterostropha</i> .	Cambridge.

Agassiz and Gould.—Principles of Zoölogy, &c. Part I. Comparative Physiology: by LOUIS AGASSIZ and AUGUSTUS A. GOULD. Boston, 1848.

[The work being general in its character, no descriptions of shells occur. Among the diagrams, however, occur the following]:—

Fig.		Fig.	
11	<i>Natica heros</i> (nerv. system.)	52	<i>Tebennophorus Carolinien-</i>
47	<i>Loligo illecebrosa</i> .	58	<i>Natica heros</i> (teeth). [sic.]

Anonymous.—On the Economical Uses of some species of Testacea. (From Silliman's Journal, o. s., vol. xxxii, No. 1, p. 53 No. 2, p. 235. 1837.)

[No descriptions are given, but numerous interesting remarks on the following]:—

Page.		Page.	
53	<i>Mytilus margaritiferus</i> Linn.	70	<i>Pinna rotundata</i> Linn.?
68	<i>Mya margaritifera</i> Linn.	73	<i>Mytilus</i> ———.
235	<i>Murex</i> ———?	250	<i>Voluta gravis</i> Linn.
239	<i>tritonis</i> Linn.	250	<i>Cypræa moneta</i> Linn.
241	———?	251	<i>Chiton fasciatus</i> Linn.
241	<i>Ostrea edulis</i> Linn.	251	<i>Murex despectus</i> Linn.
247	<i>scabra</i> Linn.	251	<i>Solen siliqua</i> Linn.
248	<i>Mya pictorum</i> Linn.	252	<i>Mytilus edulis</i> Linn.
248	<i>Turbo littoreus</i> Linn.	254	<i>Cardium edule</i> .
248	<i>Buccinum lapillus</i> Linn.	254	<i>Helix pomatia</i> .
248	<i>Pecten maximum</i> Penn.	256	<i>Unio</i> ———.
249	<i>opercularis</i> Penn.	256	<i>Chama gigas</i> Linn., &c.
249	<i>concentricum</i> .		

S. P. Hildreth.—Disease among Shell-fish (Naiades). (From same as last, p. 97.)

Mitchill.—Facts and Observations intended to illustrate the Natural and Economical History of the Eatable Clam of New York and its vicinity: by SAMUEL L. MITCHILL, M. D., &c. (From Silliman's Journal, o. s., vol. x, No. 2, p. 287. 1826.)

Venus mercenaria.

Mya arenaria.

Macra solidissima.

Arca barbata.

Gould.—Lamarck's Genera of Shells, with a Catalogue of Species: translated from the French by AUG. A. GOULD, M. D. Boston, 1833.

[No descriptions of species are given. Dr. GOULD adds a list of American species not included by Lamarck. These only are given below.—W. G. B.]

Page.

11	<i>Pholas oblongata.</i>
11	<i>truncata.</i>
11	<i>cuneiformis.</i>
11	<i>pusillus.</i>
12	<i>Solen costatus.</i>
12	<i>centralis.</i>
12	<i>viridis.</i>
13	<i>Mya acuta.</i>
13	<i>mercenaria.</i>
13	<i>hyalina.</i>
13	<i>Anatina papyratia.</i>
13	<i>leana.</i>
14	<i>Lutraria canaliculata.</i>
15	<i>Macra similis.</i>
15	<i>lateralis.</i>
15	<i>oblonga.</i>
15	<i>solidissima.</i>
15	<i>arctata.</i>
15	<i>tellinoides.</i>
15	<i>nucleus.</i>
15	<i>Erycina striata.</i>
16	<i>Solenomya velum.</i>
17	<i>Corbula contracta.</i>
17	<i>Pandora trilineata.</i>
21	<i>Tellina alternata.</i>
21	<i>punicea.</i>
21	<i>polita.</i>

Page.

21	<i>Tellina iris.</i>
21	<i>tenera.</i>
21	<i>intastriata.</i>
21	<i>lateralis.</i>
21	<i>decora.</i>
21	<i>flexuosa.</i>
21	<i>Tellinides rosea.</i>
25	<i>Cyclas rhomboidea.</i>
25	<i>partumeia.</i>
27	<i>Cytherea occulta.</i>
28	<i>Venus castanea.</i>
28	<i>inequalis.</i>
28	<i>elevata.</i>
28	<i>præparca.</i>
28	<i>grata.</i>
28	<i>notata.</i>
29	<i>Venericardia tridentata.</i>
30	<i>Cardium Mortoni.</i>
30	<i>pinnulatum.</i>
33	<i>Arca staminea.</i>
33	<i>lienosa.</i>
33	<i>ponderosa.</i>
33	<i>pexata.</i>
33	<i>incongrua.</i>
33	<i>transversa.</i>
34	<i>Nucula limatula.</i>
34	<i>proxima.</i>

Page.		Page.	
34	<i>Nucula nucleus.</i>	37	<i>Unio heterodon.</i>
34	<i>recurva.</i>	37	<i>sulcatus.</i>
37	<i>Unio ridibundus.</i>	37	<i>planulatus.</i>
37	<i>monodonta.</i>	37	<i>circulus.</i>
37	<i>undulatus.</i>	37	<i>multiradiatus.</i>
37	<i>abruptus.</i>	37	<i>occidens.</i>
37	<i>phaseolus.</i>	37	<i>securis.</i>
37	<i>tetralasmus.</i>	37	<i>iris.</i>
37	<i>dehiscens.</i>	37	<i>zig-zag.</i>
37	<i>interruptus.</i>	37	<i>patulus.</i>
37	<i>globulus.</i>	38	<i>Symphynota lævissima.</i>
37	<i>declivis.</i>	38	<i>bialata.</i>
37	<i>lapillus.</i>	38	<i>alata.</i>
37	<i>camptodon.</i>	38	<i>complanata.</i>
37	<i>lugubris.</i>	38	<i>compressa.</i>
37	<i>radiatus.</i>	38	<i>gracilis.</i>
37	<i>ovatus.</i>	38	<i>tenuissima.</i>
37	<i>cariosus.</i>	38	<i>ochracea.</i>
37	<i>nasutus.</i>	38	<i>cygnea.</i>
37	<i>cylindricus.</i>	38	<i>Alasmodonta undulata.</i>
37	<i>subtentus.</i>	38	<i>marginata.</i>
37	<i>plicatus.</i>	38	<i>ambigua.</i>
37	<i>rectus.</i>	38	<i>confragosa.</i>
37	<i>torsus.</i>	43	<i>Modiola Americana.</i>
37	<i>mytiloides.</i>	43	<i>castanea.</i>
37	<i>metanever.</i>	43	<i>Mytilus hamatus.</i>
37	<i>scalenius.</i>	43	<i>lateralis.</i>
37	<i>cornutus.</i>	43	<i>cubitus.</i>
37	<i>verrucosus.</i>	43	<i>leucophæatus.</i>
37	<i>tuberculatus.</i>	49	<i>Pecten concentricus.</i>
37	<i>gibbosus.</i>	49	<i>Pealii.</i>
37	<i>cuneatus.</i>	49	<i>ornatus.</i>
37	<i>ventricosus.</i>	49	<i>dislocatus.</i>
37	<i>siliquoides.</i>	51	<i>Ostrea semicylindrica.</i>
37	<i>triangularis.</i>	52	<i>Placuna pertusa.</i>
37	<i>parvus.</i>	52	<i>quadrifasciata.</i>
37	<i>Æsopus.</i>	58	<i>Patella amœna.</i>
37	<i>calceolus.</i>	58	<i>alternata.</i>
37	<i>lanceolatus.</i>	60	<i>Crepidula depressa.</i>
37	<i>donaciformis.</i>	60	<i>glauca.</i>
37	<i>ellipsis.</i>	60	<i>plana.</i>
37	<i>irroratus.</i>	60	<i>intorta.</i>
37	<i>lachrymosus.</i>	60	<i>convexa.</i>
37	<i>ater.</i>	60	<i>Calyptrea striata.</i>
37	<i>rubiginosus.</i>	60	<i>Ancylus rivularis.</i>

Page.		Page.	
61	<i>Bullæana solitaria.</i>	65	<i>Pupa ovata.</i>
63	<i>Helix albolabris.</i>	65	pentodon.
63	hirsuta.	66	<i>Bulimus multilatus.</i>
63	perspectiva.	66	multilineatus.
63	lineata.	66	<i>Achatina solida.</i>
63	thyroidus.	66	<i>Succinea ovalis.</i>
63	minuta.	66	campestris.
63	labyrinthica.	67	<i>Cyclostoma lapidaria.</i>
63	multilineata.	67	marginata.
63	appressa.	67	dentata.
63	palliat.	68	<i>Planorbis armigerus.</i>
63	inflecta.	68	trivolvus.
63	clausa.	68	bicarinatus.
63	obstricta.	68	parvus.
63	elevata.	68	parallelus.
63	interna.	68	exacuus.
63	chersina.	68	campanulatus.
63	gularis.	68	glabratus.
63	ligera.	68	<i>Physa gyrina.</i>
63	solitaria.	68	elongata.
63	jejuna.	68	heterostroph.
63	concava.	68	ancillaria.
63	dealbata.	69	<i>Lymnæa columella.</i>
63	profunda.	69	elongata.
63	alternata.	69	catascopium.
63	irrorata.	69	reflexa.
63	inornata.	69	appressa.
63	indentata.	69	elodes.
63	fallax.	69	desidiosa.
63	egena.	69	macrostoma.
63	tridentata.	69	emarginata.
63	monodon.	69	humilis.
64	<i>Polygyra auriculata.</i>	69	modicella.
64	avara.	69	obrussa.
64	septemvolva.	69	pinguis.
64	plicata.	69	galbana.
64	<i>Helicina major.</i>	69	<i>Melania nupera.</i>
64	orbiculata.	69	depygis.
64	occulta.	69	Virginica.
65	<i>Pupa armifera.</i>	69	semicarinata.
65	corticaria.	69	laqueata.
65	rupicola.	69	canaliculata.
65	contracta.	69	elevata.
65	exigua.	69	conica.
65	fallax.	69	catenaria.

Page.		Page.	
69	<i>Melania multilineata.</i>	78	<i>Turbo canalliculatus.</i>
69	<i>simplex.</i>	78	<i>palliatu8.</i>
69	<i>proxima.</i>	78	<i>vestita.</i>
70	<i>Pirena scalariformis.</i>	78	<i>obligatus.</i>
70	<i>Valvata tricarinata.</i>	79	<i>Turritella concava</i>
70	<i>Paludina decisa.</i>	79	<i>æqualis.</i>
70	<i>vivipara.</i>	79	<i>alternata.</i>
70	<i>subpurpurea.</i>	79	<i>reticulata.</i>
70	<i>intertexta.</i>	79	<i>impressa.</i>
70	<i>ponderosa.</i>	79	<i>bisuturalis.</i>
70	<i>integra.</i>	80	<i>Cerithium muscarum.</i>
70	<i>porata.</i>	80	<i>septemstriatum.</i>
70	<i>limosa.</i>	80	<i>ferrugineum.</i>
70	<i>decipiens.</i>	80	<i>dislocatum.</i>
70	<i>lustrica.</i>	81	<i>Fusus corneus.</i>
70	<i>grana.</i>	81	<i>cinereus.</i>
70	<i>subglobosa.</i>	81	<i>bicolor.</i>
73	<i>Natica triseriata.</i>	81	<i>decemcostatus.</i>
73	<i>duplicata.</i>	81	<i>fluvialilis.</i>
73	<i>rugosa.</i>	83	<i>Ranella caudata.</i>
73	<i>heros.</i>	90	<i>Buccinum ornatum.</i>
73	<i>pusilla.</i>	90	<i>armigerum.</i>
73	<i>Sigaretus perspectivus.</i>	90	<i>bezoar.</i>
73	<i>maculatus.</i>	90	<i>(Nassa) vibex.</i>
75	<i>Pyramidella dolabrata.</i>	90	<i>trivittata.</i>
75	<i>plicata.</i>	90	<i>obsoleta.</i>
75	<i>corrugata.</i>	90	<i>acuta.</i>
75	<i>maculosa.</i>	90	<i>unicincta.</i>
75	<i>Scalaria multistriata.</i>	90	<i>alba.</i>
75	<i>lineata.</i>	90	<i>lunata.</i>
75	<i>clathrulus.</i>	92	<i>Columbella labiosa.</i>
76	<i>Delphinula laxa.</i>	92	<i>avara.</i>
78	<i>Turbo irroratus.</i>	97	<i>Oliva mutica.</i>

Storer.—A translation of Kiener's "Species General," &c. into English: by D. HUMPHREYS STORER, M. D. No. 1. Boston, 1837.

[*Buccinum*, *Dolium*, *Tornatella*, *Pyramidella*, *Thracia*, and *Harpa* were published. A list of additional American species of *Buccinum* and *Nassa* is given, without descriptions, on page 100.—W. G. B.]

Buccinum ornatum Say.

Nassa vibex Say.

trivittata Say.

acuta Say.

Nassa unicincta Say.

alba Say.

lunata Say.

Ruschenberger.—Natural History; Conchology, vol. i, book 4: by Dr. W. S. W. RUSCHENBERGER. Philad'a, 1850.

[No descriptions are given.—W. G. B.]

Warren.—The Conchologist: by JOHN WARREN. With 16 plates. Boston, 1834.

[No descriptions or localities are given.—W. G. B.]

Poe.—The Conchologist's First Book, &c.; arranged expressly for the use of Schools: by EDGAR A. POE. Second edition, with 12 plates. Philadelphia, 1840.

[No descriptions or localities of species are given. The generic descriptions appear to be copied from WYATT's "Conchology."—W. G. B.]

Wyatt.—A Manual of Conchology, according to the System laid down by Lamarck, &c.: by THOMAS WYATT, M. A. With 36 plates. New York, 1838.

[Descriptions of but few species are given, and these without locality.—W. G. B.]

Rafinesque.—Discoveries in Natural History in the Western States: by C. S. RAFINESQUE. (From Amer. Monthly Magazine and Critical Review, vol. iii, p. 354 New York. September, 1818.)

Page.		Page.	
355	<i>Potamilus latissimus Raf.</i>	355	<i>Potamilus gibbosus Raf.</i>
355	<i>violacinus Raf.</i>	355	<i>verrucosus Raf.</i>
355	<i>niger Raf.</i>	355	<i>tubercularis Raf.</i>
355	<i>fasciolaris Raf.</i>	355	<i>nodosus Raf.</i>
355	<i>phaedrus Raf.</i>	355	<i>pusillus Raf.</i>
355	<i>ellipticus Raf.</i>	355	<i>subrotundus Raf.</i>
355	<i>zonalis Raf.</i>	355	<i>obovalis Raf.</i>
355	<i>obliquatus Raf.</i>	355	<i>Pleurocera retusa Raf.</i>
355	<i>retusus Raf.</i>	355	<i>saxatilis Raf.</i>
355	<i>truncatus Raf.</i>	355	<i>fasciata Raf.</i>
355	<i>triqueter Raf.</i>	355	<i>coneola Raf.</i>
355	<i>alatus Raf.</i>	355	<i>angulata Raf.</i>
355	<i>nervosus Raf.</i>	355	<i>turricula Raf.</i>
335	<i>fasciatus Raf.</i>	355	<i>Ambloxis eburnea Raf.</i>
355	<i>auratus Raf.</i>	355	<i>ventricosa Raf.</i>

Rafinesque.—Further Account of Discoveries in Natural History in the Western States: by C. S. RAFINESQUE. (From the same, vol. iv, p. 38. November, 1818.)

Page.	Name.	Locality.
42	<i>Ellipstoma Raf.</i> (n. g.)	
42	<i>gibbosa Raf.</i>	Ohio and Wabash river.
42	<i>zonalis Raf.</i>	Kentucky river.
42	<i>rugosa Raf.</i>	Ohio river.

Rafinesque.—General Account of the Discoveries made in the Zoology of the Western States: by C. S. RAFINESQUE. (From the same, vol. iv, p. 106. December, 1818.)

[No descriptions are given. The following new genera are mentioned by name—W. G. B.]—

Page.		Page.	
107	<i>Mesomphix Raf.</i>	107	<i>Ellipstoma Raf.</i>
107	<i>Trophodon Raf.</i>	107	<i>Euryostoma Raf.</i>
107	<i>Triodopsis Raf.</i>	107	<i>Notrema Raf.</i>
107	<i>Stenostoma Raf.</i>	107	<i>Ambloxis Raf.</i>
107	<i>Toxostoma Raf.</i>	107	<i>Patamila Raf.</i>
107	<i>Zolotrema Raf.</i>	107	<i>Truncilla Raf.</i>
107	<i>Aplodon Raf.</i>	107	<i>Stenodon Raf.</i>
107	<i>Lymnula Raf.</i>	107	<i>Pleuroxis Raf.</i>
107	<i>Pleurotoma Raf.</i>		

Rafinesque.—Description of a new genus of Fluvatile Bivalve Shell of the family Brachiopods, *Notrema fissurella*, &c.: by C. S. RAFINESQUE. (From the same, p. 356. March, 1819.)

Page.	Name.	Locality.
356	<i>Notrema fissurella Raf.</i>	Ohio river.

Adams.—Catalogue of the Genera and Species of Recent Shells in the Collection of C. B. ADAMS, A. M. Middlebury, 1847.

[No descriptions are given. As the "North American" species are not limited to the region to which my extracts are confined, I do not insert them here.—W. G. B.]

Page.		Page.	
19	<i>Cerithium terebrale</i> Ad. preoc. =	21	<i>Natica canaliculata</i>
	<i>C. terrebellum.</i>		= <i>N. Gou.</i>

Page.		Page.
23	<i>Cyclotoma obscurum</i> Gr. preoc. = <i>C. Grayanum</i> Adams.	32 <i>Helix cellaria</i> .
29	<i>Thetis</i> preoc. = <i>Gouldia</i> .	<i>H. glaphyra</i> .
32	<i>Helix arbustorum</i> .	32 <i>Physa hypnorum</i> .
32	<i>aspersa</i> .	32 <i>Paludina vivipara</i> .
32	<i>hortensis</i> .	32 <i>Limnæa minuta</i> .
32	<i>virgata</i> .	32 <i>desidiosa</i> .
	Notes on—	32 <i>Helix lucida</i> .
32	<i>Helix pulchella</i> .	32 <i>arborea</i> .

Kirtland.—Remarks on the Sexes and Habits of some of the Acephalous Bivalve Mollusca: by JARED P. KIRTLAND, M. D. (From Proc. Am. Assoc. Adv. Sci., vol. v, p. 85-91. Washington, 1851.)

[Notes on sexual differences, byssus, locality, rarity, &c., of numerous species.—W. G. B.]

Akerly.—Economical History of the Fishes sold in the Markets of the city of New York: by Dr. S. AKERLY. (From Amer. Monthly Magazine and Critical Review, vol. ii. New York. Feb. 1818.)

Page.		Page.
296	Notes on <i>Mya arenaria</i> .	296 Notes on <i>Ostrea edulis</i> .
296	<i>Venus mercenaria</i> .	(Also on page 475.)

Kennicott.—Catalogue of Animals observed in Cook County, Illinois: by ROBERT KENNICOTT. (From Trans. Illinois State Agricultural Soc., vol. i, p. 577. Mollusca, p. 595. Springfield, Ill., 1855.)

[No descriptions are given.—W. G. B.]

Page.		Page.
595	<i>Unio alatus</i> Say.	595 <i>Unio parvus</i> Barnes.
595	<i>costatus</i> Raf.	595 <i>Alasmodonta calceolata</i>
595	<i>iris</i> Lea.	595 <i>Cyclas similis</i> Say. [Lea.
595	<i>bullatus</i> Raf.	595 <i>Helix monodon</i> Rack.
595	<i>fragilis</i> Raf.	595 <i>profunda</i> .
595	<i>luteolus</i> Lam.	595 <i>Planorbis campanulatus</i>
595	<i>dilatatus</i> Raf.	595 <i>trivolvus</i> Say. [Say.
595	<i>coccineus</i> Hldr.	595 <i>Limnea reflexa</i> Say.
595	<i>cardium</i> Raf.	595 <i>fragilis</i> Linn.

Page.		Page.	
595	<i>Limnea emarginata Say.</i>	595	<i>Melania carinata.</i>
595	<i>Physa heterostropha Say.</i>	595	<i>semicarinata Say.</i>
595	<i>Paludina decisa Say.</i>		

Conrad.—Shells from Coast of Lower California and Peru: by T. A. CONRAD. (From Journ. Acad. Nat. Sci. Phila., N. S., vol. i, pt. 4, p. 278 Jan. 1850. Vide also, *ante*.)

Page.	Plate.	Fig.	Name.
278			<i>Solecardia Conrad</i> (n. g.)
279	xxxix	1	<i>eburnea Conrad.</i>
279	xxxix	2	<i>Petricola sinuosa Conrad.</i>
279			<i>Pholadopsis Conrad</i> (n. g.)
279	xxxix	3	<i>pectinata Conrad.</i>
279	xxxix	4	<i>Parapholas bisulcata Conrad.</i>
279	xxxix	5	<i>Penitella Wilsoni Conrad.</i>
280	xxxix	6	<i>Triton perforatus Conrad.</i>
280	xxxix	7	<i>Oliva propatula Conrad.</i>

Leidy.—On the Situation of the Olfactory Sense in the Terrestrial Tribe of Gasteropodous Mollusca: by Dr. J. LEIDY. (In Journ. Acad. Nat. Sci. Phila., N. S., vol. i, pt. 1, p. 49. Dec. 1847.)

Rafinesque.—Podrome de 70 nouveaux genres d'Animaux découverts dans l'intérieur des Etats Unis d'Amérique, durant l'année 1818: par C. S. RAFINESQUE, Prof., etc. (Journal de Physique, de Chemie, d'Histoire Naturelle, et des Arts, etc.: par M. H-M, Ducrotay de Blainville. Tome 88, p. 417. Paris, Juin, 1819.)

Page.		Page.	
423	<i>Pleurocera Raf.</i>	424	<i>Omphemis lacustris Raf.</i>
423	<i>Oxytrema Raf.</i>	424	<i>plaioxis Raf.</i>
423	<i>Campeloma Raf.</i>	424	<i>Lomastoma Raf.</i>
423	<i>crassula Raf. Ohio river.</i>	424	<i>terebrina Raf.</i>
423	<i>Omphaliscula Raf.</i>	424	<i>Eutrema Raf.</i>
423	<i>Espiphylla Raf.</i>	424	<i>terebroides Raf.</i>
424	<i>Leptoxis Raf.</i>	424	<i>Ellipstoma Raf.</i>
424	<i>Cyclemis Raf.</i>	424	<i>gibbosa Raf.</i>
424	<i>minutissima Raf.</i>	424	<i>vittata Raf.</i>
424	<i>olivacea Raf.</i>	424	<i>zonalis Raf.</i>
424	<i>Omphemis Raf.</i>	424	<i>marginata Raf.</i>

Page.		Page.	
425	Odotropis Raf.	425	Toxotrema Raf.
425	Mesomphix Raf.	425	<i>globularis</i> Raf.
425	Triodopsis Raf.	425	<i>complanata</i> Raf.
425	Xolotrema Raf.	425	Stenotrema Raf.
425	<i>lunula</i> Raf.	425	<i>convexa</i> Raf.
425	<i>triiodopsis</i> Raf.	425	Aplodon Raf.
425	Chimotrema Raf.	425	<i>nodosum</i> Raf.
425	<i>planiuscula</i> Raf.		

[Descriptions of fossil univalves here follow.—W. G. B.]

Subgenera of Unio —		Subgenera of Unio —	
426	Proptera Raf.	426	Obovaria Raf.
426	<i>alata</i> Raf.	426	<i>obovalis</i> Raf.
426	<i>phaedra</i> Raf.	426	<i>subrotunda</i> Raf.
426	<i>pallida</i> Raf.	427	<i>syntoxis</i> Raf.
426	Eurynea Raf.	427	<i>retusa</i> Raf.
426	<i>latissima</i> Raf.	427	<i>crassa</i> Raf.
426	<i>dilatata</i> Raf.	427	<i>torsa</i> Raf.
426	<i>solenoides</i> Raf.	427	Truncilla Raf.
426	Elliptio Raf.	427	<i>triquetra</i> Raf.
426	Plagiola Raf.	427	<i>truncata</i> Raf.
426	<i>verrucosa</i> Raf.	427	Amblema Raf.
426	<i>fasciolaris</i> Raf.	427	<i>ovalis</i> Raf.
426	<i>leptodon</i> Raf.	427	Pleurorema Raf.
426	<i>depressa</i> Raf.	427	<i>mytiloides</i> Raf.
426	<i>flava</i> Raf.	427	<i>conica</i> Raf.
426	<i>obliquata</i> Raf.		

[Descriptions of fossil bivalves.—W. G. B.]

428 **Noletrema patelloides** Raf. Ohio.

[Other fossil shells.]

Girard.—Catalogue of Recent Shells and other Mollusca found in the District of Columbia, prepared from specimens in the Cabinet of Dr. E. Foreman: by CHARLES GIRARD. (Proceedings of National Institute, Washington, vol. i, No. 2. March 1856.)

[Bryozoa are omitted.—W. G. B.]

Page.		Page.	
79	Cyclas similis Say.	79	Pisidium dubium Say.
79	<i>rhomboidea</i> Say.	79	<i>variabile</i> Prime.
79	<i>partumeia</i> Say.	79	Unio cariosus Say.
79	<i>solidula</i> Prime.	79	<i>ochraceus</i> Say.

Page.		Page.	
79	<i>Unio nasutus Say.</i>	81	<i>Pupa contracta Say.</i>
79	<i>Fisherianus Lea.</i>	81	<i>pentodon Binn.</i>
79	<i>complanatus Sol.</i>	81	<i>procera Gould.</i>
79	<i>radiatus Lam.</i>	81	<i>rupicola Say.</i>
79	<i>heterodon Lea.</i>	81	<i>Vertigo millium Gould.</i>
79	<i>Alasmodonta marginata Say.</i>	81	<i>ovata Say.</i>
79	<i>undulata Say.</i>	81	<i>Carychium exiguum Gould.</i>
79	<i>Anodonta cataracta Say.</i>	81	<i>Ancylus fuscus Adams.</i>
79	<i>implicata Say.</i>	81	<i>rivularis Say.</i>
79	<i>areolata Swains.</i>	81	<i>tardus Say.</i>
80	<i>Tebennophorus Carolinen-</i>	81	<i>Lymnea columella Say.</i>
	<i>sis Binn.</i>	81	<i>desidiosa Say.</i>
80	<i>Limax agrestis Müll.</i>	81	<i>caperata Say.</i>
80	<i>Helix albolabris Say.</i>	81	<i>macrostoma Say.</i>
80	<i>alternata Say.</i>	81	<i>modicellus Say.</i>
80	<i>arborea Say.</i>	81	<i>humilis Say.</i>
80	<i>chersina Say.</i>	82	<i>Physa ancillaria Say.</i>
80	<i>concava Say.</i>	82	<i>elongata Say.</i>
80	<i>electrina Gould.</i>	82	<i>fragilis Migh. & Ad.</i>
80	<i>fraterna Say.</i>	82	<i>heterostrophia Say.</i>
80	<i>fuliginosa Grif.</i>	82	<i>Planorbis bicarinatus Say.</i>
80	<i>gularis Say.</i>	82	<i>deflectus Say.</i>
80	<i>hirsuta Say.</i>	82	<i>exacutus Gould.</i>
80	<i>inflecta Say.</i>	82	<i>hirsutus Gould.</i>
80	<i>indentata Say.</i>	82	<i>parvus Say.</i>
80	<i>labyrinthica Say.</i>	82	<i>trivolvus Say.</i>
80	<i>ligera Say.</i>	82	<i>Melania multilineata Say.</i>
80	<i>lineata Say.</i>	82	<i>virginica Say.</i>
80	<i>pulchella Gould.</i>	82	<i>Anculosa carinata Say.</i>
80	<i>minuscule Binn.</i>	82	<i>monodonta Say.</i>
80	<i>suppressa Say.</i>	82	<i>Paludina decisa Say.</i>
80	<i>thyroidus Say.</i>	82	<i>subcarinata Say.</i>
80	<i>tridentata Say.</i>	82	<i>Amnicola lapidaria Say.</i>
81	<i>Succinea avara Say.</i>	82	<i>decisa Hald.</i>
81	<i>campestris Say.</i>	82	<i>porata Say.</i>
81	<i>ovalis Gould.</i>	82	— (n. s.)
81	<i>obliqua Say.</i>	82	— (n. s.)
81	<i>Bulimus fallax Gould.</i>	82	<i>Valvata pupoidea Gould.</i>
81	<i>lubricus Gould.</i>	82	<i>tricarinata Say.</i>
81	<i>Pupa armifera Say.</i>		

Currier.—List of Shells collected in the Grand River (Michigan Valley: by A. O. CURRIER.

[No date; said to have been published in 1859. No descriptions are given.—W. G. B.]

Unio alatus Say.

- asperrimus* Lea.
- crassus* Say.
- cornutus* Barnes.
- coccineus* Hildreth.
- elegans* Lea.
- ellipsis* Lea.
- gibbosus* Barnes.
- gracilis* Barnes.
- iris* Lea.
- lævissimus* Lea.
- luteolus* Lam.
- Novi-Eboraci* Lea.
- occidens* Lea.
- plicatus* Barnes.
- præsinus* Conrad.
- rectus* Lam.
- rubiginosa* Lea.
- spatulata* Lea.
- subovatus* Say.
- tenuissimus* Lea.
- trigonus* Lea.
- triangularis* Barnes.
- verrucosus* Barnes.
- ventricosus* Barnes.

Alasmodon deltoides Lea.

- rugosa* Barnes.
- marginata* Say.

Anodon Benedictii Lea.

- Buchanensis* Lea.
- edentula* Say.
- Ferussaciana* Lea.
- Footiana* Lea.
- ovata* Lea.
- pallida* Anthony.
- Pepiniana* Lea.
- plana* Lea.
- Shæfforiana* Lea.
- salmonia* Lea.

Cyclas similis Say.

Cyclas sulcata Lam.

- striatula* Lam.
- occidentalis* Prime.
- partumeia* Say.
- distorta* Prime.

Pisidium compressum Prime.

- additum* Hald.
- ventricosum* Prime.
- dubium* Say.

Paludina decisa Say.

——?

- integra* Say.
- isogona* Say.
- rufa* Hald.

Amnicola grana Say.

- pallida* Hald.
- lapidaria* Say.

Valvata tricarinata Say.

Malania neglecta Anthony.

- pulchella* Anthony.
- niagerensis* Lea.
- livescens* Menka.

Ancylus fusca Adams.

- parallelus* Hald.

Lymnea appressa Say.

- umbrosa* Say.
- columella* Say.
- desidiosa* Say.
- modicellus*? Gould.
- gracilis* Jay.
- elodes* Say.
- reflexa* Hald.
- umbilicata* Adams
- pallida* Adams.

Physa Hildrethiana Lea.

- heterostropha* Say.
- elongata* Say.
- vinosa* Gould.

Planorbis armigera Say.

- bicarlinatus* Say.

Planorbis campanulatus Say.

executus Say.

parvus Say.

trivolvus Say.

Helix albolabris Say.

alternata Say.

arboria Say.

chersina Say.

concava Say.

clausa Say.

electrina Say.

fallax Say.

fraterna Say.

fuliginosa Binney.

hirsuta Say.

hydrophila Ingalls.

indentata Say.

ligera Say.

labyrinthica Say.

limatula Ward.

lineata Say.

minuscule Binney

Helix monodon Rackett.

multilineata Say.

palliatu Say.

perspectiva Say.

profunda.

solitaria Say.

striatella Anthony.

thyroides Say.

tridentata Say.

Succinea obliqua Say.

avara Say.

ovalis Gould.

vermetus Say.

Bulimus fallax Gould.**Pupa contracta** Say.

armifera Say.

pentodon Say.

Carychium exiguum Say.**Vertigo simplex** Gould.

Gouldii Binney.

Achatina lubrica Müller.

Hildreth.—Catalogue of Fresh-water Shells found near Marietta, Ohio: by S. P. HILDRETH.

[No date, paging, or descriptions.—W. G. B.]

Alasmodonta complanata Bar.**Unio plicatus** Say.

ellipticus Barnes.

siliquoides Barnes.

anodontoides Lea.

• rectus Lam.

ovatus Say.

alatus Say.

Alasmodonta rugosa Barnes.**Cyclas similis** Say.**Unio heros** Say.

tuberculatus Barnes.

verrucosus Barnes.

pustulatus Lea.

pustulosus Lea.

metanevrus Raf.

cornutus Barnes.

rugosus Barnes.

perplexus Lea.

Unio irroratus Lea.

cylindricus Say.

torsus Raf.

pyramidatus Lea.

undatus Barnes.

mytiloides Raf.

trigonus Lea.

scalenius Raf.

cuneatus Barnes.

niger Raf.

phaseolus Hildreth.

ellipsis Lea.

foliatus Hildreth.

securis Lea.

abruptus Say.

gibbosus Barnes.

elegans Lea.

multiradiatus Lea.

planus Barnes.

Unio monodontus *Barnes.**occidens* *Lea.**gracilis* *Barnes.**laevissimus* *Lea.***Alasmodonta marginata** *Say.***Anodonta Ohioensis** *Say.**areola* *Say.**undulata* *Say.**cataracta* *Say.***Unio compressus** *Lea.**ventricosus* *Barnes.**plicatus* *Say.**siliquoides* *Barnes.**perplexus* *Lea.**phaseolus* *Hildreth.**sulcatus* *Lea.***Unio ridibundus** *Say.**politus* *Say.**subrotundus* *Raf.**parvus* *Barnes.**zig-zag* *Lea.**triangularis* *Barnes.**dehiscens* *Say.**pileus* *Lea.**iris* *Lea.**parvus* *Barnes.**glans* *Lea.**lapillus* *Say.**calceolus* *Lea.**plicatus.**alatus.*

Conrad.—Observations on the Tertiary and more Recent Formations of the Southern States: by T. A. CONRAD. (From Journ. Acad. Nat. Sci. Phila., o. s., vol. vii, pt. 1. 1834.)

The following pliocene species are said to be found recent on the coast:—

Page.		Page.	
124	<i>Arca transversa.</i>	125	<i>Lucina divaricata</i> <i>Lam.</i>
124	<i>Cytherea Sayana.</i>	125	<i>Crepidula convexa</i> <i>Say.</i>
	<i>C. convexa</i> <i>Say.</i>	125	<i>glaucia</i> <i>Say.</i>
124	<i>Pholas costata</i> <i>Lam.</i>	125	<i>plana</i> <i>Say.</i>
124	<i>Ostrea Virginiana</i> <i>Gmel.</i>	125	<i>Fusus cinereus</i> <i>Say.</i>
124	<i>Solen ensis</i> <i>Linn.</i>	125	<i>Nassa trivittata</i> <i>Say.</i>
124	<i>Saxicava rugosa</i> <i>Lam.</i>	125	<i>lunata</i> <i>Say.</i>
124	<i>Venus mercenaria</i> <i>Lam.</i>	125	<i>Natica duplicata</i> <i>Say.</i>
124	<i>Panopea reflexa</i> <i>Say</i> = <i>P.</i>	125	<i>heros</i> <i>Say.</i>
	<i>Faujasii</i> ?	125	<i>Fulgur carica</i> <i>Say.</i>
125	<i>Macra tellinoides</i> <i>Conr.</i>	125	<i>canaliculatus</i> <i>Say.</i>
125	<i>Pandora trilineata</i> <i>Say.</i>	125	<i>Scalaria clathrus</i> <i>Lam.</i>
125	<i>Cardita tridentata</i> <i>Say.</i>	125	<i>Vermetus lumbricalis</i> <i>Lam.</i>
125	<i>Lucina contracta</i> <i>Say.</i>	125	<i>Rangia cyrenoides.</i>
125	<i>crenulata</i> <i>Conr.</i>		<i>Clathradon cuneata.</i>

(Appendix to same.)

153	<i>Amphidesma inaequale</i> <i>Say.</i>	153	<i>Corbula contracta</i> <i>Say.</i>
153	<i>Arthemis concentrica.</i>	153	<i>Oliva litterata</i> <i>Lam.</i>
153	<i>Anomia ephippium</i> <i>Linn.</i>	153	<i>zonalis</i> <i>Lam.</i>
153	<i>Cytherea gigantea</i> <i>Lam.</i>	153	<i>Pecten magellanicus.</i>
153	<i>Lutraria canaliculata</i> <i>Say.</i>	153	<i>Cerithium dislocatum.</i>
153	<i>Macra lateralis</i> <i>Say.</i>		

Haldeman.—*Leptoxis*: par M. STEHMAN HALDEMAN. (From Illustrations Conchyliologiques, par M. Chenu, liv. 73.)

Pa. Pl.	Fig.	Name.	Locality.
2 i	1-18	<i>Leptoxis præerosa</i> Say.	Ohio, Ind., Ky., Ten., Ala.
		<i>Anculosa præerosa</i> Say.	
		<i>Melanopsis neritiformis</i> Desh.	
		<i>Anculotus præerosus</i> Conrad.	
		<i>Melania cruentata</i> Menke.	
		<i>Cincinnatiensis</i> Lea.	
		<i>Anculotus angulatus</i> Conrad.	
		<i>Leptoxis retusa</i> Raf.?	
2 i	19-23	<i>crassa</i> Hald.	Clinch river, Tenn.
2 i	24-26	<i>incisa</i> Lea.	Alabama.
		<i>Anculosa incisa</i> Lea.	
2 i, ii	27-34	<i>obovata</i> Say.	Ohio river.
		<i>Melania obovata</i> Say.	
		<i>Hildrethiana</i> Lea.	
3 ii	35-39	<i>plicata</i> Conrad.	Tenn. & Ala. rivers.
		<i>Anculotus plicatus</i> Conrad.	
		<i>Anculosa tuberculata</i> Lea.	
3 ii	40-58	<i>subglobosa</i> Say.	Holston river, Tenn.
		<i>Melania globula</i> Lea.	
		<i>virgata</i> Lea.	
		<i>Anculosa gibbosa</i> Lea.	
		<i>subglobosus</i> Conrad.	
3 ii, iii	59-70	<i>rubiginosa</i> Lea.	Warrior and Coosa rivers, Ala.
		<i>Anculosa rubiginosa</i> Lea.	
		<i>Griffithiana</i> Lea.	
3 iii	71-73	<i>tæniata</i> Conrad.	Claiborne.
		<i>Anculosa tæniata</i> Conrad.	
3 iii	74-80	<i>picta</i> Conrad.	Alabama.
		<i>Anculosa flammata</i> Lea.	
		<i>Foremani</i> Lea?	
4 iii	81	<i>Troostiana</i> Lea.	Tennessee river.
		<i>Anculosa Troostiana</i> Lea.	
4 iii	82	<i>pisum</i> Hald.	Tennessee river.
4 iii, iv	83-84	<i>fusca</i> Hald.	Oregon.
4	85-101	<i>dissimilis</i> Say.	Pa., Va., &c.
		<i>Puludina dissimilis</i> Say.	
		<i>Helix subcarinata</i> Wood.	
		<i>Anculosa nigrescens</i> Conrad.	
4 iv	102-109	<i>variabilis</i> Lea.	Roanoke, Va.
		<i>Anculosa variabilis</i> Lea.	
		<i>carinata</i> Lea.	
		<i>Melania Nickliniana</i> Lea?	

Pa. Pl.	Fig.	Name.	Locality.
4 iv	110	Leptoxis littorina Hald. <i>Anculosa littorina</i> Hald. <i>Melania pilula</i> Lea.	Holston river, Va.
4 iv	111-120	dilatata Conrad. <i>Melania dilatata</i> Conrad. <i>Rogersii</i> Conrad. <i>inflata</i> Lea. <i>Anculotus Kirtlandianus</i> Anth. <i>carinatus</i> Conrad.	Kanawha river, Va.
5 iv	124-133	monodontoides Conrad. <i>Anculosa monodontoides</i> Conrad. <i>dentatus</i> Couth.	Virginia.
5 v	134-144	trilineata Say. <i>Melania trilineata</i> Say. <i>Anculotus costatus</i> Anthony. <i>Melania viridis</i> Lea. <i>occidentalis</i> Lea.	Ohio river.
5 v	145-146	melanoides Conrad.	Alabama.
5 v	147-150	virens Lea. <i>Paludina virens</i> Lea. <i>nuclea</i> Lea?	Wahlamat.
5 v	151	turgida Hald.	Alabama.
5 v	152	altilis Lea.	Susquehanna river.
6 v	153	crenata Hald.	Santee canal, S. C.
6 v	154	integra Say. <i>Melania integra</i> Say. <i>Anculotus pumilus</i> Conrad.	Ohio river.
6 v	155	isogona Say. <i>Melania isogona</i> Say. <i>Paludina pallida</i> Lea. <i>Amnicola isogona</i> Lea. <i>Mudalia isogona</i> Hald.	Ohio, Ky., Ind.
6 v	156	? Nuttalliana Lea. <i>Paludina Nuttalliana</i> L. <i>seminalis</i> Hinds?	Wahlamat creek.

Haldeman.—Mollusca: by S. S. HALDEMAN. (In Rupp's History of Lancaster County, p. 479. Lancaster, Pa., 1844.)

Page.		Page.	
479	Melania virginica.	480	Amnicola limosa.
479	Anculosa dissimilis.		lustrica.
480	Paludina decisa.	480	granum.
480	—	480	Valvata tricarinata.

Page.		Page.	
480	<i>Physa heterostropha.</i>	482	<i>Helix fuliginosa.</i>
480	<i>Limnea palustris.</i>	482	<i>hirsuta.</i>
	<i>L. elodes.</i>	482	<i>pulchella.</i>
480	<i>desidiosa.</i>	482	<i>indentata.</i>
480	<i>caperata.</i>	482	<i>electrina.</i>
480	<i>humilis.</i>	482	<i>labyrinthica.</i>
481	<i>Planorbis bicarinatus.</i>	482	<i>Succinea obliqua.</i>
481	<i>parvus.</i>	482	<i>Unio cariosus.</i>
481	<i>Ancylus rivularis.</i>	482	<i>radiatus.</i>
481	<i>Helix albolabris.</i>	482	<i>complanatus.</i>
481	<i>thyroides.</i>	482	<i>viridis.</i>
481	<i>tridentata.</i>	482	<i>Alasmodon undulatus.</i>
481	<i>concava.</i>	482	<i>marginatus.</i>
481	<i>alternata.</i>	482	<i>Anodon cataractus.</i>
481	<i>hirsuta.</i>	482	<i>undulatus.</i>
482	<i>palliata.</i>		

Taylor.—Notice of occurrence of Green-gilled Oysters: by W. J. TAYLOR. (From Amer. Journ. Sci., n. s., vol. xxv, p. 294. March, 1858.)

Gould.—Catalogue of Maine Shells: by Dr. A. A. GOULD. (In First Report on the Geology of the State of Maine, by Charles F. Jackson, M. D., p. 119. Augusta, 1837.)

Page.		Page.	
119	<i>Solen ensis L.</i>	119	<i>Alasmodonta margaritifera</i>
119	<i>Solecurtus costatus Say.</i>	119	<i>undulata Say. [Gmel.]</i>
119	<i>Glycimeris siliqua Lam.</i>	119	<i>Anodonta marginata Say.</i>
119	<i>Mya mercenaria Linn.</i>	119	<i>Modiola papuana Lam.</i>
119	<i>truncata.</i>	119	<i>plicatula Lam.</i>
119	<i>hyalina Conr.</i>	119	<i>Mytilus edulis Linn.</i>
119	<i>Anatina Leana Conr.</i>	119	<i>pellucidus Penn.</i>
119	<i>Mactra gigantea Lam.</i>	119	<i>Pecten Magellanicus Lam.</i>
119	<i>Solemya velum Say.</i>	119	<i>Islandicus Lam.</i>
119	<i>Saxicava distorta Say.</i>	119	<i>Ostrea Canadensis Lam.</i>
119	<i>Sanguinolaria fusca Conr.</i>	119	<i>Anomia ephippium.</i>
119	<i>Crassina Danmoniensis</i>	119	<i>Terebratula —.</i>
	<i>Astarte castanea Say. [Lam.]</i>	119	<i>Chiton —.</i>
119	<i>Cyprina Islandica Lam.</i>	119	<i>Patella amœna Say.</i>
119	<i>Cardium Icelandicum.</i>	119	<i>Crepidula fornicata Say.</i>
119	<i>Grœnlandicum.</i>	119	<i>plana Say.</i>
119	<i>Unio complanatus Sol.</i>	119	<i>Helix albolabris Say.</i>

Page.		Page.	
119	<i>Helix thyroïdus</i> Say.	119	<i>Turbo palliatus</i> Say.
119	<i>alternata</i> Say.	119	<i>vestitus</i> Say.
119	<i>Planorbis trivolvis</i> Say.	119	<i>Fusus corneus</i> Say.
119	<i>campanulatus</i> Say.	119	<i>decemcostatus</i> Say.
119	<i>Physa heterostrophæ</i> Say.	119	<i>Islandicus Martini.</i>
119	<i>Lymnæa columella</i> Say.	119	<i>Purpura lapillus</i> Lam.
119	<i>Paludina decisa</i> Say.	119	<i>Buccinum undatum</i> Linn.
119	<i>Natica heros</i> Say.	119	<i>Nassa obsoleta</i> Say.
119	<i>triseriata</i> Say.	119	<i>trivittata</i> Say.

Pourtales.—Notes on Specimens of the Bottom of the Ocean brought up in recent Explorations of the Gulf Stream, in connection with the Coast Survey: by L. F. POURTALES, Assistant. (From Proc. Amer. Assoc. Advanc. Sci., for 1853, page 181. Cambridge, 1856.)

Page.	Name.	Locality.
183	<i>Spirialis Gouldii.</i>	Lat. 30° 50'; long. 78° 49'.

[This is the only specific name of Mollusca given.—W. G. B.]

Thomas.—Indications of Weather as shown in Animals and Plants: by W. H. B. THOMAS, of Philadelphia. (From same as last, p. 119.) Notes on—

Page.		Page.	
120	<i>Helix alternata.</i>	120	<i>Helix thyroïdus.</i>
120	<i>arborea.</i>	121	<i>solitaria.</i>
120	<i>indentata.</i>	121	<i>zaleta.</i>
120	<i>Ruderati.</i>	121	<i>albolabris.</i>
120	<i>minuta.</i>	121	<i>thyroïdus.</i>
120	<i>clausa.</i>	121	<i>appressa.</i>
120	<i>ligera.</i>	121	<i>tridentata.</i>
120	<i>Pennsylvanica.</i>	121	<i>fallax.</i>
120	<i>elevata.</i>	121	<i>psiliata.</i>
120	<i>solitaria.</i>	121	<i>hirsuta.</i>
120	<i>zaleta.</i>		

Dr. J. P. Kirtland.—(Silliman's Journal, n. s., vol. xxxi, No. 1, p. 200. January, 1837.) Notes on—

Page.		Page.	
200	<i>Helix fuliginosa.</i>	200	<i>Helix glaphyra.</i>

Conrad.—Descriptions of fifteen new species of Recent, and three of Fossil Shells, chiefly from the Coast of the United States: by TIMOTHY A. CONRAD, Member &c. (From Journ. Acad. Nat. Sci. of Philadelphia, vol. vi, p. 256. March, 1831.)

Page.	Pl.	Fig.	Name.	Locality.
257			Mactra solidissima Chemn. <i>M. solida</i> (var. β) Gmelin. <i>procera</i> Solander. <i>grandis</i> Solander. <i>stultorum</i> Solander. <i>gigantea</i> Lam. <i>similis</i> Say.	
257	xi	1	<i>arctata</i> Conrad.	Mass. to Florida.
258	xi	2-3	<i>tellinoides</i> Conrad.	Northern coast.
258	xi	4	<i>nucleus</i> Conrad.	New Jersey.
258			Cardium laqueatum Conr. (fossil).	Maryland.
259	xi	5-7	Mortoni Conrad.	Northern coast.
260	xi	8	<i>pinnulatum</i> Conrad.	Massachusetts.
260			Pecten Pealeii Conrad.	Maine.
261	xi	12	<i>Mya hyalina</i> Conrad.	Northern coast.
261			Cytherea convexa Say.	Rhode Island.
263	xi	11	<i>Anatina Leana</i> Conrad.	Northern coast.
263	xi	13	<i>Mytilus leucophæatus</i> Conrad.	Southern coast.
264			Arca maxillata Conrad (fossil).	Maryland.
264	xi	14-15	Venus alveata Conrad. <i>V. paphia</i> Linn.	Maryland.
265			Pecten Magellanicus.	Maine.
266	xi	17-18	Velutina rupicola Conrad.	Massachusetts.
266	xi	19	Lacuna pertusa Conrad.	Massachusetts.
267	xi	20	Patella alveus Conrad.	Massachusetts.

Conrad, Case, &c.—In the new series of the American Journal of Science and Art, occur the following:—

Vol.	Page.	Name.	Locality.
May, 1846.		Conrad. —Catalogue of Recent Shells found also in the Miocene: by T. A. CONRAD. [No descriptions.]	
i	404	Artemis acetabulum Conrad.	Florida.
i	404	<i>elegans</i> Conrad.	Florida.
i	404	Astarte lunulata Con	Charleston.
i	404	Arca improcera Con	Southern coast.
i	404	Anomia eship	thern coast.

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Vol.	Page.	Name.	Locality.
i	404	<i>Cardita tridentata</i> Say.	Southern coast.
i	404	<i>granulata</i> Say.	Southern coast.
i	404	<i>Chama arcinella</i> Lam.	Southern coast.
i	404	<i>Cumingia tellinoides</i> Conrad.	Southern coast & Mass.
i	404	<i>Cultellus Carribæus</i> .	S'n coast, Mass., N. J.
i	404	<i>Cytherea elevata</i> Conrad.	Gulf of Mexico.
i	404	<i>Sayana</i> Conrad.	Rh. Island, Mass., N. J.
i	404	<i>Lucina crenulata</i> Conrad.	Cape Henry, Va.
i	404	<i>divaricata</i> Lam.	Atlantic coast.
i	404	<i>trisulcata</i> Conrad.	Florida.
i	404	<i>radula</i> Lam.	Rhode Island & Mass.
i	404	<i>squamosa</i> Lam.	Southern coast.
i	404	<i>Mactra lateralis</i> Say.	Atlantic coast.
i	404	<i>Nucula acuta</i> Say.	
i	404	<i>proxima</i> Say.	Atlantic coast.
i	404	<i>limatula</i> Say.	Massachusetts.
i	404	<i>acuta</i> Conrad.	Gulf of Mexico.
i	404	<i>Pecten concentricus</i> Say.	Atlantic coast.
i	404	<i>Tellina lusoria</i> Say.	Southern coast.
i	404	<i>Venus lanceata</i> Say.	Southern coast.
i	404	<i>mercenaria</i> L.	Atlantic coast.
i	404	<i>metastrata</i> Say.	Florida.
i	405	<i>Cerithium clavulus</i> H. C. Lea.	Tampa Bay.
i	405	<i>dislocatum</i> Say.	Southern coast.
i	405	<i>Dentalium coarctatum</i> Lam.	Gulf of Mexico.
i	405	<i>Crepidula unguiformis</i> .	Atlantic coast.
i	405	<i>fornicata</i> Lam.?	Atlantic coast.
i	405	<i>convexa</i> Say?	Atlantic coast.
i	405	<i>Fulgur carica</i> ?	Southern coast.
i	405	<i>canaliculatus</i> .	Atlantic coast.
i	405	<i>Natica heros</i> Say.	Atlantic coast.
i	405	<i>duplicata</i> Say.	Atlantic coast.
i	405	<i>canrena</i> Lam.	Florida.
i	405	<i>Nassa trivittata</i> Say.	Atlantic coast.
i	405	<i>obsoleta</i> Say.	Atlantic coast.
i	405	<i>lunata</i> Say.	Atlantic coast.
i	405	<i>Oliva litterata</i> Lam.	Florida.
i	405	<i>zonalis</i> Lam.	Florida.
Conrad.—Notices of Fresh-water Shells, &c., of Rock- bridge County, Va.: by T. A. CONRAD.			
i	407	<i>Unio collinus</i> Conrad.	
i	407	<i>purpureus</i> Say.	
i	407	<i>constrictus</i> Conrad.	
i	407	<i>subplanus</i> Conrad.	
i	407	<i>lanceolatus</i> Lea.	
i	407	<i>Alasmodonta undulata</i> Say.	
i	407	<i>marginata</i> Say.	
i	407	<i>Anodon cataracta</i> Say.	
i	407	<i>marginata</i> Say?	
i	407	<i>Planorbis parvus</i> Say.	
i	407	<i>Ancylus rivularis</i> Say.	
i	407	<i>Paludina decisa</i> Say.	
i	407	<i>Anculosa dilatata</i> Conrad.	
i	407	<i>Melania virginica</i> Say.	

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Vol.	Page.	Name.	Locality.
Nov.	1846.	Conrad. —Observations on the Geology of a part of East	
ii	36	Florida, with a Catalogue of Recent Shells of the Coast: by T. A. CONRAD.	
ii	38	<i>Unio Blandingianus</i> Lea = Caro-	
		<i>linensis</i> Bosc.	Savannah river.
ii	38	<i>subinflatus</i> Conrad.	Savannah river.
ii	38	<i>Shepardianus</i> Lea.	Savannah river.
ii	39	<i>Ostrea Virginiana</i> .	Near mouth St. John's r.
ii	39	<i>Mytilus edulis</i> .	Near mouth St. John's r.
ii	39	<i>cubitus</i> Say.	Near mouth St. John's r.
ii	39	<i>Tellina lateralis</i> Say.	Near mouth St. John's r.
ii	39	<i>Amphidesma equalis</i> Say.	Near mouth St. John's r.
ii	39	<i>Macra lateralis</i> Say.	Near mouth St. John's r.
ii	39	<i>Solecurtus caribæus</i> .	Near mouth St. John's r.
ii	39	<i>Arca pexata</i> Say.	Near mouth St. John's r.
ii	39	<i>incongrua</i> Say.	Near mouth St. John's r.
ii	39	<i>ponderosa</i> Say.	Near mouth St. John's r.
ii	39	<i>Donax variabilis</i> Say.	Near mouth St. John's r.
ii	39	<i>Cardium magnum</i> .	Near mouth St. John's r.
ii	39	<i>Lucina divaricata</i> .	Near mouth St. John's r.
ii	39	<i>Petricola dactylus</i> .	Near mouth St. John's r.
ii	39	<i>Ranella caudata</i> Say.	Near mouth St. John's r.
ii	39	<i>Cryptostoma perspectiva</i> Say.	Near mouth St. John's r.
ii	39	<i>Crepidula plana</i> Say.	Near mouth St. John's r.
ii	39	<i>Littorina irroration</i> Say.	Near mouth St. John's r.
ii	39	<i>Oliva litterata</i> .	Near mouth St. John's r.
ii	39	<i>Fulgur carica</i> .	Near mouth St. John's r.
ii	39	<i>canaliculata</i> .	Near mouth St. John's r.
ii	39	<i>Natica duplicata</i> ?	Near mouth St. John's r.
		All the above, except <i>Fulgur carica</i> and <i>Solecurtus caribæus</i> , I sub- sequently found at Tampa bay.	
ii	39	<i>Tellina radiata</i> .	Fort Lauderdale.
ii	39	<i>Polygyra plicata</i> Say.	Key Biscayne.
ii	39	<i>Nerita peleronta</i> .	Indian Key.
ii	39	<i>tessellata</i> .	Indian Key.
ii	39	<i>versicolor</i> .	Indian Key.
ii	39	<i>pica</i> .	Indian Key.
ii	39	<i>Littorina muricata</i> .	Indian Key.
ii	40	<i>Succinea avara</i> Say.	Island near Indian Key.
ii	40	<i>Polygyra plicata</i> .	Island near Indian Key.
ii	40	<i>septemvolva</i> .	Island near Indian Key.
ii	40	<i>Achatina fasciata</i> .	Island near Indian Key.
ii	40	<i>Spirula Peronii</i> .	Island near Indian Key.
ii	40	<i>Ianthina fragilis</i> .	Island near Indian Key.
ii	40	<i>Carditomeria Florida</i> ana.	Island near Indian Key.
ii	40	<i>Fasciolaria tulipa</i> .	Key West.
ii	40	<i>Nerita peleronta</i> .	Key West.
ii	40	<i>Fusus corona</i> .	Key West.
ii	41	<i>Strombus gigas</i> .	Key West.
ii	41	<i>Ninus cancellata</i> Lam.	Mullet Key.
ii	41	<i>Chama arcinella</i> .	Mullet Key.
ii	41	<i>Strombus</i> us.	Mullet Key.
ii	41	<i>Natica</i> .	Egmont Key.
ii	41	<i>Pecten</i> .	Egmont Key.

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ii	42	<i>Modiola demissa</i> .	Tampa bay.
ii	42	<i>Cardium Mortoni</i> .	Tampa bay.
ii	42	<i>Osteodesma hyalina</i> .	Tampa bay.
ii	42	<i>Pecten concentricus</i> .	Tampa bay.
ii	42	<i>Anomia ephippium</i> .	Tampa bay.
ii	42	<i>Marginella conoidalis</i> .	Tampa bay.
ii	42	<i>Nassa vibex</i> Say.	Tampa bay.
ii	42	<i>Murex corona</i> Linn.	Tampa bay.
ii	42	<i>Fasciolaria trapezium</i> .	Tampa bay.
ii	42	<i>Fulgur perversus</i> .	Tampa bay.
ii	42	pyrum.	Tampa bay.
ii	42	<i>Venus Mortoni</i> .	Tampa bay.
ii	42	<i>Littorina angulifera</i> .	Tampa bay.
ii	45	<i>Neretina reclivata</i> .	Tampa bay.

Nov. 1846. **Conrad.**—Catalogue of Florida Shells, Tampa Bay, &c.
by T. A. CONRAD.

Vol.	Pa.	Name.	Vol.	Pa.	Name.
ii	393	<i>Amphidesma variegata</i>	ii	394	<i>Lucina squamosa</i> Lam.
ii	393	<i>radiata</i> Say. [Lam.	ii	394	<i>tigrina</i> Lam.
ii	393	<i>orbiculata</i> Say.	ii	394	<i>Floridana</i> Contr.
ii	393	<i>æqualis</i> Say.	ii	394	<i>edentula</i> Lam.
ii	393	<i>zebra</i> .	ii	394	<i>trisulcata</i> Contr.
ii	393	<i>Artemis elegans</i> Contr.	ii	394	<i>Macra ovalis</i> ?
ii	393	<i>concentrica</i> Lam.	ii	394	<i>lateralis</i> Say.
ii	393	<i>Anomia ephippium</i> Lin.	ii	394	<i>fragilis</i> Lam.
ii	393	<i>Arca scapha</i> ?	ii	394	<i>Modiola demissa</i> Dill.
ii	393	<i>incongrua</i> Say.	ii	394	<i>lateralis</i> Say.
ii	393	<i>ponderosa</i> Say.	ii	394	<i>papyria</i> Contr.
ii	393	<i>Avicula</i> ———.	ii	394	<i>Americana</i> .
ii	393	<i>Astarte lunulata</i> Contr.			<i>M. tulipa</i> Lam.
ii	393	<i>flabella</i> .	ii	394	<i>Mytilus hamatus</i> Say —
ii	393	<i>Cardium citrinum</i> Wood.	ii	394	<i>cubitus</i> Say.
ii	393	<i>isocardia</i> Lam.	ii	394	<i>Meleagrina</i> ———.
ii	393	<i>magnum</i> Born.	ii	394	<i>Nucula acuta</i> Contr.
ii	393	<i>bullatum</i> Lam.	ii	394	<i>eborea</i> Contr.
ii	393	<i>Mortoni</i> Contr. [Con.	ii	395	<i>Ostrea Virginiana</i> Gmel.
ii	393	<i>Carditamera Floridana</i>	ii	395	<i>Osteodesma hyalina</i> C.
		<i>Cypricardia nodulosa</i>	ii	395	<i>Periploma inequivalvis</i>
		Mighels.			Lam.
ii	394	<i>Cardita tridentata</i> Say.	ii	395	<i>Pecten concentricus</i> S.
ii	394	<i>Chama arcinella</i> Lam.	ii	395	<i>dislocatus</i> Say.
ii	394	<i>Cytherea gigantea</i> Lam.	ii	395	<i>Pinna</i> ———.
ii	394	<i>maculata</i> Lam.	ii	395	<i>Floridana</i> Contr.
ii	394	<i>Corbula limatula</i> Contr.	ii	395	<i>Plicatula ramosa</i> Lam.
ii	394	<i>Cyrena Carolinensis</i>	ii	395	<i>Solen ensis</i> Linn.
		Bosc.	ii	395	<i>Solecurtus fragilis</i> Van.
ii	394	<i>Floridana</i> Contr.	ii	395	<i>Tellina punicea</i> Linn.
ii	394	<i>Donax variabilis</i> Say.	ii	395	<i>acuta</i> Wood.
ii	394	———.	ii	395	<i>lateralis</i> Say.
ii	394	———.	ii	395	———.
		<i>Nucula</i> Contr.	ii	395	———.
		a Lam.	ii	395	<i>Venus cancellata</i> Lam.
			ii	395	<i>punctulata</i> Val.

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ii	395	Venus Mortoni <i>Conr.</i>	ii	397	Murex Tampaensis <i>Conr.</i>
ii	395	cuneimeris <i>Conr.</i>	ii	397	Marginella conoidalis
ii	396	Actæon Floridanus <i>C.</i>			<i>Kiener.</i>
ii	396	Bulla succinea <i>Conr.</i>	ii	397	succinea <i>Conr.</i>
ii	396	—	ii	397	albilabris <i>Conr.</i>
ii	396	Bullina canaliculata <i>S.</i>	ii	397	Monodonta —
ii	396	Cancellaria cancellata	ii	397	Melampus bidentatus
		<i>Lam.</i>			<i>Say.</i>
ii	396	Cerithium protextum <i>C.</i>	ii	397	Melongena (Fusus) corona <i>Lam.</i>
ii	396	septemstriatum <i>S.</i>	ii	397	Natica duplicata <i>Say?</i>
ii	396	eriense <i>Kiener.</i>	ii	397	canrena <i>Lam.</i>
		<i>C. nigrescens</i> <i>Mke.?</i>	ii	397	Neritina (Theodoxus)
ii	396	dislocatum <i>Say.</i>	ii	397	reclivata <i>Say.</i>
ii	396	—	ii	397	Oliva litterata <i>Lam.</i>
ii	396	—			<i>[Lam.]</i>
ii	396	Crepidula fornicata	ii	397	mutica <i>Lam.</i>
ii	396	maculosa <i>Conr.</i>	ii	398	Ovulum aciculare <i>Lam.</i>
ii	396	aculeata <i>Lam.</i>	ii	398	Patella —
ii	396	unguiformis <i>Lam.</i>	ii	398	Pleurotoma —
		<i>C. plana</i> <i>Say.</i>	ii	398	—
ii	396	Cypræa pediculus.	ii	398	Pollia tinota <i>Conr.</i>
ii	396	Cassia sulcosa <i>Lam.</i>	ii	398	cancellaria <i>Conr.</i>
ii	396	Columbella avara <i>Say.</i>	ii	398	Pyrula papyratia <i>Say</i>
ii	396	—			<i>(F. cas.)</i>
ii	396	Conus —	ii	398	Pyramidella alveata <i>C.</i>
ii	396	—	ii	398	Pirena scalariformis <i>S.</i>
ii	396	Dentalium eboreum	ii	398	Ranella caudata <i>Say.</i>
		coarctatum <i>Lam.</i>	ii	398	Strombus pugilus.
		<i>D. gadus</i> <i>Sowb.</i>	ii	398	Scalaria —
ii	396	Fulgur perversus <i>Lam.</i>	ii	398	Triton lineolatum <i>Conr.</i>
ii	396	pyruloides <i>Say.</i>	ii	398	Turbo castaneus.
ii	397	Fasciolaria trapezium	ii	398	Trochus Tampaensis <i>C.</i>
		<i>Lam.</i>	ii	398	Voluta Junonia.
ii	397	dislocatus <i>Lam.</i>	ii	398	Vermetus lumbricalis.
ii	397	tulipa <i>Lam.</i>	ii	398	Pholas costata.
ii	397	Fusus ferrugatus <i>Conr.</i>	ii	398	Teredo navalis.
		<i>(Manatee R.) (descr.)</i>	ii	398	Polygyra plicata.
ii	397	Fissurella —	ii	398	septemvolva.
ii	397	Littorina littorea <i>Say.</i>	ii	398	Glandina truncata.
ii	397	(Phasianella) angulifera <i>Lam.</i>	ii	398	Pupa —
ii	397	Murex ostrearum <i>Conr.</i>	ii	398	Achatina fasciata.
ii	397	cellulosa <i>Conr.</i>	ii	398	Succinea campestris.

Jan. 1847.

William Case.

Vol.	Page.	Fig.	Name.	Locality.
iii	101	1-3	Helix annulata <i>Case.</i>	Lake Superior.
iii	101	4, 5	Planorbis multivolvis <i>Case.</i>	Michigan.
Mar.	1847.		Gould. —Note on the above descriptions of Case: by Dr. A. A. Gould.	

Case = *H. striatella* junior.

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Vol.	Page	Fig.	Name.	Locality.		
A. A. Gould. —Descriptions of Connecticut Shells collected and named by the late Rev. J. H. LINSLEY.						
Sept.	1848.					
vi	233	1, 2	Astarte mactracea Gould.	Connecticut.		
vi	233		<i>Cytherea morrhua</i> Linsley = C. convexa Say.			
vi	233		<i>Unio Pequottinus</i> Lins. = U. latus Raf. (<i>U. rectus</i> Say).			
vi	234	3	Cyclas truncata Linsley.	Connecticut.		
vi	234	4, 5	Anodonta Housatonica Linsley.	Connecticut.		
vi	235	6	Pecten fuscus Linsley.	Connecticut.		
vi	236		<i>Helix Trumbulli</i> = Skenea serpuloides .			
vi	236	7	Fusus Trumbulli Linsley.	Connecticut.		
vi	236	8	Buccinum zonale Linsley.	Connecticut.		
T. A. Conrad.						
Mar.	1856.					
xxi	172		Unio diversus Conr. (fig.)	Shoal creek, N. Ala.		
xxi	172		<i>viridis</i> Raf.	Phoenixville, Pa., & Trenton.		
Stimpson. —Criticism on the Mollusca of Rink's "Greenland;" by WILLIAM STIMPSON.						
[No descriptions, but many critical remarks.—W. G. B.]						
Jan.	1858					
xxv	125		Tellina tenera Say; if preoc., may be called— <i>T. agilis</i> Stimpson.			
Smith. —Depth of Mollusca of Peconic and Gardiner's Bays, Long Island, N. Y.: by SANDERSON SMITH.						
March,	1859.					
Vol.	Pa.		Name.	Vol.	Pa.	Name.
xxvii	281		Loligo illecebrosa.	xxvii	282	Chemnitzia interrupta.
xxvii	281		Ranella caudata.	xxvii	282	Scalaria clathrus.
xxvii	281		Pyrula canaliculata.	xxvii	282	<i>lineata.</i>
xxvii	281		<i>carica.</i>	xxvii	282	Cerithium Sayii.
xxvii	281		Buccinum plicosum.	xxvii	282	<i>nigrocinctum.</i>
xxvii	281		Nassa obsoleta.	xxvii	282	Greenii. [sonii.]
xxvii	281		<i>trivittata.</i>	xxvii	282	Cerithiopsis Emer-
xxvii	281		Columbella avara.	xxvii	282	<i>terebellum.</i>
xxvii	281		<i>Gouldiana.</i>	xxvii	282	Cæcum pulchellum.
xxvii	281		<i>lunata.</i>	xxvii	282	Vermetus radicola.
xxvii	281		Pleurotoma cerinum.	xxvii	282	Littorina rudis.
xxvii	281		<i>plicatum.</i>	xxvii	282	<i>littoralis.</i>
xxvii	281		Natica heros.	xxvii	282	Lacuna vineta.
xxvii	281		<i>duplicata.</i>	xxvii	282	<i>fusca.</i>
xxvii	281		<i>triseriata.</i>	xxvii	282	Rissoa minuta.
xxvii	281		<i>pusilla.</i>	xxvii	282	Skenea (n. s.)
xxvii	282		<i>immaculata.</i>	xxvii	282	Calyptrea striata.
xxvii	282		Eulima subangulata.	xxvii	282	Crepidula fornicata.
xxvii	282		Chemnitzia producta.	xxvii	282	<i>convexa.</i>
xxvii	282		<i>fusca.</i>	xxvii	282	<i>unguiformis.</i>
xxvii	282		<i>seminuda.</i>	xxvii	282	Tectura testudinalis.
				xxvii	282	Chiton apiculatus.
				xxvii	282	Melampus corneus.

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Vol.	Pa.	Name.	Vol.	Pa.	Name.
xxvii	282	<i>Actæon punctostria-</i>	xxvii	283	<i>Venus mercenaria.</i>
xxvii	282	<i>Bulla solitaria.</i> [tus.	xxvii	283	<i>Cytherea convexa.</i>
xxvii	282	<i>canaliculata.</i>	xxvii	283	<i>Venus gemma.</i>
xxvii	282	<i>Æolis</i> (n. s. ?)	xxvii	283	<i>Petricola dactylus.</i>
xxvii	282	<i>Ostræa borealis.</i>	xxvii	283	<i>pholadiformis.</i>
xxvii	282	<i>Anomia ephippium.</i>	xxvii	283	<i>Macra lateralis.</i>
xxvii	282	var. <i>electrica.</i>	xxvii	283	<i>solidissima.</i>
xxvii	282	var. <i>squamula.</i>	xxvii	283	<i>Kellia planulata.</i>
xxvii	282	<i>aculeata.</i>	xxvii	283	<i>Montacuta elevata.</i>
xxvii	282	<i>Pecten irradians.</i>	xxvii	283	<i>Tellina agilis</i> (St.)
xxvii	282	<i>Mytilus edulis.</i>	xxvii	283	<i>tenta.</i>
xxvii	282	<i>modiolus.</i>	xxvii	283	<i>fusca.</i>
xxvii	282	<i>plicatulus.</i>	xxvii	283	<i>Cumingia tellinoides</i>
xxvii	282	<i>Arca transversa.</i>	xxvii	283	<i>Solen ensis.</i>
xxvii	282	<i>peziata.</i>	xxvii	283	<i>Solecurtus bidens.</i>
xxvii	282	<i>Nucula proxima.</i>	xxvii	283	<i>Mya arenaria.</i>
xxvii	282	<i>Leda limatula.</i>	xxvii	283	<i>Corbula contracta.</i>
xxvii	282	<i>sapotilla.</i>	xxvii	283	<i>Anatina papyracea.</i>
xxvii	282	<i>Solemya velum.</i>	xxvii	283	<i>Cochlodesma leanum.</i>
xxvii	283	<i>borealis.</i>	xxvii	283	<i>Lyonsia hyalina.</i>
xxvii	283	<i>Cardium Mortoni.</i>	xxvii	283	<i>Thracia Conradi.</i>
xxvii	283	<i>pinnulatum.</i>	xxvii	283	<i>Pandora trilineata.</i>
xxvii	283	<i>Astarte mactracea.</i>	xxvii	283	<i>Saxicava distorta.</i>

Storer, Binney, &c.—In the Boston Journal of Natural History occur the following:—

Vol.	No.	Pa.	Plate.	Fig.	Name.	Locality.
May, 1837					Storer. —Description of a new species of <i>Marginella</i> : by D. HUMPHREYS STORER, M. D.	
i	4	465	x	2	<i>Marginella carnea</i> Storer.	Key West.
i	4	466			Binney. —A Monograph of the <i>Helices</i> inhabiting the United States: by AMOS BINNEY, M. D. [This paper was also published in pamphlet form.—W. G. B.]	
i	4	473	xii		<i>Helix major</i> Binney.	[For locality, vide quotations from "Terrestrial Mollusks."]
i	4	475	xiii		<i>H. albolabris</i> var. <i>maxima</i>	
i	4	480	xiv		<i>albolabris</i> Say. [Fer.	
i	4	482	xv		<i>multilineata</i> Say.	
i	4	483	xvi		<i>clausa</i> Say.	
i	4	485	xvii		<i>Pennsylvanica</i> Green.	
i	4	488	xviii		<i>subglobosa</i> Binney.	
i	4	490	xix		<i>thyroidus</i> Say.	
					<i>Mesodon leucodon</i> Raf.	
					<i>elevata</i> Say.	
					<i>H. Knoxvilliana</i> Fer.	
					<i>Mesodon helicinum</i> Raf.	

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Vol.	No.	Pa.	Plate.	Fig.	Name.	L.
i	4	492	xx		Helix zaleta Say.	
i	4	494	xxi		<i>H. albolabris</i> var. <i>unidentata</i> Fer. dentifera Binney.	
Febr. 1838						
ii	1	53			Couthouy. —Descriptions of new species of Mollusca and Shells, and Remarks on Polypi found in Massachusetts Bay: by P. COUTHOUY.	
ii	1	59	iii	2	Tellina sordida Couth.	
ii	1	61	iii	6	Cardium pubescens Couth.	
ii	1	62	iii	7	Nucula myalis Couth.	
ii	1	64	iii	8	<i>tenuisulcata</i> Couth.	
ii	1	65			Terebratula septentrionalis Couth.	
ii	1	67	i	1	Eolis Bostoniensis Couth.	
ii	1	68	i	2	(<i>Cavolina</i>) salmonacea Couth.	
ii	1	69	i	3	(<i>Tergipes</i>) gymnota Couth.	
ii	1	74	ii	1-4	Tritonia Reynoldsii Couth.	
ii	1	80			Chiton fulminatus Couth.	
ii	1	82			<i>sagrinatus</i> Couth.	
ii	1	83	iii	10	Emersonii Couth.	
ii	1	86			Patella candida Couth.	
ii	1	87			Rimula Noachina Linn. <i>Patella Noachina</i> Linn. <i>apertura</i> Mont. <i>fissurella</i> Gmelin. <i>Fissurella Noachina</i> Lyell. <i>Sipho radiata</i> Brown.	
ii	1	88	ii	8	Bulla triticea Couth.	
ii	1	89			Natica consolidata Couth.	
ii	1	90			Oxynoe? <i>glabra</i> Couth.	
ii	1	92	ii	7	Jaminia exigua Couth.	
ii	1	93	iii	4	Scalaria subulata Couth.	
ii	1	96	iii	5	Novangli Couth.	
ii	1	98			Turbo incarnatus Couth.	
ii	1	99	iii	9	<i>cinereus</i> Couth. <i>obscurus</i> Couth.	
ii	1	101	i	6	Pyramis striatulus Couth.	
ii	1	103	iii	1	Turritella erosa Couth.	
ii	1	104	i	11	Pleurotoma bicarinata Couth.	
ii	1	105	iii	3	Cancellaria buccinoides Couth.	
ii	1	106	i	10	Fusus harpularius Couth.	
ii	1	107	i	9	<i>pleurotomarius</i> Couth.	
ii	1	108	iii	2	Trichotropis costellatus Couth.	
[The following mentioned by name only]:—						
ii	1	110			Modiola discors Linn.	
ii	1	110			<i>discrepans</i> Lam.	
ii	1	110			Valvata tricarinata Say.	
ii	1	110			Natica immaculata Totten.	
ii	1	110			Galericulum lævigatum Brown.	
ii	1	110			<i>ovatum</i> Brown.	
ii	1	111			Fusus turriculus Mont.	
ii	1	111			Nassa acuta Say.	
ii	1	111			Actæon trifidus (<i>Jaminia</i>) Tott.	

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Vol.	No.	Pa.	Plate.	Fig.	Name.	Locality.
ii	1	111			Polyclinum ——— ?	
ii	1	111			Botryllus stellatus Pallas.	
ii	1	111			Ascidia rustica Linn.	
ii	1	111			microcosmus Cuv.	
ii	1	111			intestinalis Linn.	
ii	1	111			pedunculata Lam.	
ii	1	122			Storer. —Description of a new species of <i>Nucula</i> from Massachusetts Bay: by D. HUMPHREYS STORER, M. D.	
ii	1	122			Nucula thraciæformis Storer (with a fig.)	
Feb.	1839				Couthouy. —Monograph of the Family Osteodesmacea of Deshayes, with Remarks on two species of <i>Patelloidea</i> , and Descriptions of new species of Marine Shells, a species of <i>Anculotus</i> , and one of <i>Eolis</i> : by JOSEPH P. COUTHOUY.	
ii	2	153	iv	2	Thracia Conradi Couth. <i>T. declivis</i> Conr. <i>Anatina convexa</i> Hitchcock's Catalogue.	New England.
ii	2	166			Osteodesma hyalina Conr. <i>Mya hyalina</i> Conr.	
ii	2	170			Cochlodesma Couth. (n. g.)	
ii	2	170			Cochleodesma Leana Conr. <i>Anatina Leana</i> Conr.	
ii	2	171			Patelloidea amœna Say. <i>Patella amœna</i> Say.	
ii	2	177			alveus Conr. <i>Patella alveus</i> Conr.	
ii	2	178	iv	4	Nucula navicularis Couth.	Massachus'ts Bay.
ii	2	179	iii	15	Bulla lineolata Couth.	Massachus'ts Bay.
ii	2	180	iv	5	hiemalis Couth.	Massachus'ts Bay.
ii	2	181	iv	6	Gouldii Couth.	Massachus'ts Bay.
ii	2	183	iv	8	Pleurotoma decussata Couth.	Massachus'ts Bay.
ii	2	185	iv	7	Anculotus dentatus Couth.	Potomac, Va.
ii	2	187	iv	9	Eolis diversa Couth.	Massachus'ts Bay.
ii	2	262			Adams. —Observations on some species of the Marine Shells of Massachusetts, with Descriptions of five new species: by C. B. ADAMS, A. M. [No descriptions, but remarks, locality, &c.—W. G. B.]	
ii	2	263			Columbella avara Say.	
ii	2	264			Buccinum vibex. <i>Nassa vibex</i> Say.	
ii	2	265			trivittatum Say. <i>Nassa trivittata.</i>	
ii	2	265			lunata Sam. <i>Nassa</i>	

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Vol.	No.	Pl.	Plate	Fig.	Name.	Locality.
ii	2	267			Buccinum obsoletum. <i>Nassa obsoleta</i> Say. <i>B. oliviforme</i> Kiener.	
ii	2	268			Purpura lapillus Linn. <i>Buccinum lapillus</i> L.	
ii	2	269			Ranella caudata Say.	
ii	2	269			Pyrula canaliculata Lam. <i>Murex canaliculata</i> Linn.	
ii	2	269			carica Lam. <i>Murex carica</i> Gmelin.	
ii	2	272			Fusus cinereus Say.	
ii	2	273			Cerithium reticulatum Tott. <i>Pasithea nigra</i> Totten.	
ii	2	275			Turritella interrupta Totten.	
ii	2	276			Crepidula plana Say.	
ii	2	278			fornicata Lam. <i>Patella fornicata</i> Linn	
ii	2	279			convexa Say.	
ii	2	280	iv	13	Jaminia seminuda Adams.	Dartmouth har'r
ii	2	282	iv	9	Pyramis fusca Adams.	New Bedford.
ii	2	284	iv	10	Cerithium Emersonii Adams.	New Bedford.
ii	2	286	iv	11	nigrocinctum Adams.	Dartmouth har'r
ii	2	287	iv	12	Greenii Adams.	Dartmouth har'r
Jan.	1840				Anthony. —Descriptions of three new species of Shells: by J. G. ANTHONY.	
iii	1, 2	278	iii	1	Anculotus costatus Anth.	Cincinnati.
iii	1, 2	278	iii	2	Helix striatella Anth. [Anth.	Cincinnati.
iii	1, 2	279	iii	3	Paludina Cincinnatiensis	Cincinnati.
July,	1840				Adams. —Descriptions of thirteen new species of New England Shells: by C. B. ADAMS, A. M.	
iii	3	318	iii	6	Pleurotoma plicata Adams.	New Bedford.
iii	3	320	iii	7	Cerithium terebrale Adams. <i>C. Emersonii</i> (var.) Ad.	New Bedford.
iii	3	322	iii	8	Jaminia producta Adams.	Fairhaven.
iii	3	323	iii	9	Tornatella punctostriata	New Bedford.
iii	3	324	iii	13	Limnæa pallida Ad. [Ad.	Lake Champlain
iii	3	325	iii	14	umbilicata Adams.	New Bedford.
iii	3	326	iii	15	Planorbis virens Adams.	New Bedford. [&
iii	3	327	iii	16	elevatus Adams.	S Bos'n, L. Georg
iii	3	329	iii	17	Ancylus fuscus Adams.	Andover & Man
iii	3	330	iii	11	Cyclas elegans Adams.	Vermont. [file
iii	3	331	iii	18	Pupa badia Adams.	Crown Point, N.
					Adams. —Description of <i>Tellina tenta</i> Say, and of <i>Helix serpuloides</i> Montague, with remarks on other Marine Shells of Massachusetts: by B. ADAMS, A. M.	
iii	3	332			Tellina tenta Say.	N. England, S.
iii	3	334			Delphinula (?) serpuloides. <i>Helix serpuloides</i> Mont.	East Boston.

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Vol.	No.	Pa.	Plate.	Fig.	Name.	Locality.
					<i>Turbo serpuloides</i> Turton. <i>Delphinoidea serpuloides</i> Brown.	
iii	3	335			Cerithium Emersonii Adams.	New Bedford.
iii	3	336			Greenii Adams.	New Bedford, &c.
iii	3	337			Jaminia seminuda Adams.	New Bedford.
iii	3	337			<i>fusca</i> Adams.	Fairhaven.
					<i>Pyramis fusca</i> Adams.	
Binney. —A Monograph of the Helices inhabiting the United States: by AMOS BINNEY, M. D. (Continued from vol. i.)						
iii	3	353	vii		Helix palliata Say. <i>H. obstricta</i> Say. <i>denotata</i> Fer. <i>Caroliniensis</i> Lea. <i>Carocolla helicoides</i> Lea. <i>Tridopsis scabra</i> Raf.	[For locality, vide quotations from "Terrestrial Mollusks U. S."]
iii	3	356	viii		appressa Say. <i>H. linguifera</i> Fer.	
iii	3	358	ix	1	inflecta Say. <i>H. clausa</i> Fer. <i>Tridopsis clausa</i> Raf.	
iii	3	360	x	1	monodon Rackett. <i>H. Leaii</i> Ward MS.	
iii	3	363	x	2	fraterna Say. <i>H. monodon</i> Wood. <i>convexa</i> Desh.	
iii	3	365	x	3	hirsuta Say. <i>H. fraterna</i> Wood. <i>Stenotrema convexa</i> Raf.	
iii	3	367	xi	2	spinosa Lea. <i>Carocolla spinosa</i> Lea.	
iii	3	369	xii		Nuttalliana Lea.	
iii	3	371	xiii		Townsendiana Lea.	
iii	3	372	xiv		concava Say. <i>H. planorboides</i> Fer. <i>Vancouverensis</i> Lea. <i>Mesomphix planorboides</i>	
iii	3	375	ix	2	pulchella Müll. [Raf. <i>H. paludosa</i> Montagu. <i>minuta</i> Say.	
iii	3	377	xv		profunda Say. <i>H. Richardi</i> Fer.	
iii	3	379	xvi		Sayii Binney. <i>H. diodonta</i> Say, preoc.	
iii	3	382	xvii		tridentata Say. <i>H. fallax</i> Say.	
iii	3	384	xix	1, 2	auriculata Say. <i>Polygyra auriculata</i> Say. <i>avara</i> Say. <i>H. avara</i> Fer. <i>Sayii</i> Wood.	

Vol.	No.	Pa.	Plate	Fig.	Name.	Locality.
iii	3	388	xix	3	<i>Helix fatigiata</i> Say. <i>Polygyra plicata</i> Say. <i>fatigiata</i> Say. <i>Dorfeuilliana</i> Lea <i>Troostiana</i> Lea.	
iii		391	xix	4	<i>septemvolva</i> Say. <i>Polygyra septemvolva</i> Say. <i>H. septemvolva</i> Fer. <i>planorbula</i> Lam.	
iii	3	393	xxvi	1	<i>labyrinthica</i> Say.	
Anthony. —Descriptions of two new species of <i>Anculotus</i> : by J. G. ANTHONY.						
iii	3	394	iii	5	<i>Anculotus carinatus</i> Anth.	Kanawha falls.
iii	3	395	iii	4	<i>Kirtlandianus</i> Anth.	Kanawha falls.
iii	3	395			Gould. —Monograph of the species of <i>Pupa</i> found in the United States, with figures: by AUGUSTUS A. GOULD, M. D.	
iii	3	397	iii	19	<i>Pupa corticaria</i> Say.	[Localities not given, as they are included in the quotations from "Terrestrial Mollusks U.S."—W. G. B.]
iii	3	398	iii	20	<i>exigua</i> Say.	
iii	3	399	iii	22	<i>contracta</i> Say.	
iii	3	400	iii	10	<i>armifera</i> Say.	
iii	3	401	iii	12	<i>procera</i> Gould.	
iii	3	402	iii	23	<i>miliun</i> Gould.	
iii	3	403	iii	21	<i>simplex</i> Gould.	
iii	3	404			<i>badia</i> Adams.	
Nov. 1841					Binney. —A Monograph of the <i>Helices</i> inhabiting the United States: by AMOS BINNEY, M. D. (Continued.)	
iii	4	405	xxi	1	<i>Helix interna</i> Say. <i>H. pomum-Adami</i> Green.	[For localities, see "Terrestrial Mollusks U.S."—W. G. B.]
iii	4	408	xi	1	<i>gularis</i> Say.	
iii	4	410	xi	3	<i>suppressa</i> Say.	
iii	4	412	xx	1	<i>ligera</i> Say. <i>H. Rafinesquea</i> Fer. <i>Wardiana</i> Lea.	
iii	4	413	xx	2	<i>intertexta</i> Binney.	
iii	4	415	xxii	3	<i>indentata</i> Say.	
iii	4	416	xxvi	3	<i>chersina</i> Say.	
iii	4	417	xxiv		<i>fuliginosa</i> Griffith ined. <i>H. lucubrata</i> Say. <i>lavigata</i> Fer.	
iii	4	419	xxi	3	<i>inornata</i> Say.	
iii	4	421			<i>cellaria</i> Mull. <i>H. nitida</i> Drap. <i>glaphyra</i> Say.	
iii	4	422	xxii	1	<i>orbicula</i> Say.	
iii	4				<i>orbicula</i> Gould.	
iii					<i>orbicula</i> Binney.	

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iii	4	428	xxv		Helix alternata Say.	
					<i>H. scabra</i> Lam.	
iii	4	430	xxi	4	perspectiva Say.	
					<i>H. parvula</i> Desh.	
iii	4	432	xxi	5	striatella Anth.	
iii	4	434	xxi	2	limatula Ward, ined.	
iii	4	435	xxii	4	minuscule Binney.	
iii	4	436	xxii	6	lineata Say.	
iii	4	483			Gould. —Results of an Examination of the Shells of Massachusetts, and their Geographical Distribution: by AUGUSTUS A. GOULD, M. D.	
					[No descriptions. Notes on the following European species]:—	
iii	4	488			Limnæa palustris.	
iii	4	488			stagnalis.	
iii	4	489			Bulimus acutus.	
iii	4	489			Helix variabilis.	
iii	4	489			Pisana.	
iii	4	489			Alasmodon margaritifera.	
					&c. &c.	
Jan.	1842				Mighels & Adams. —Descriptions of twenty-four species of the Shells of New England: by J. W. MIGHELS, M. D., and Prof. C. B. ADAMS.	
iv	1	37				
iv	1	38	iv	1	Thracia truncata M. & Ad.	Casco bay.
iv	1	39	iv	2	Cyclas minor M. & Ad.	Weybridge, Vt., Portland, Me.
iv	1	39	iv	3	nitida M. & Ad.	Oxford Co., Me.
iv	1	40	iv	5	Nucula delphinodonta M. & A.	Casco bay.
iv	1	40	iv	6	Cascoensis M. & Ad.	Casco bay.
iv	1	41	iv	7	Pecten tenuicostatus M. & Ad.	Casco bay.
iv	1	42	iv	8	Chiton mendicarius M. & Ad.	Casco bay.
iv	1	42	iv	9	Cemoria princeps M. & Ad.	Maine.
iv	1	43	iv	10	Bulla puncto-striata M. & Ad.	Casco bay.
iv	1	44	iv	12	Physa fragilis M. & Ad.	Monmouth, Me.
iv	1	45	iv	13	Limnæa decollata M. & Ad.	Unity, Me.
iv	1	46	iv	14	Margarita varicosa M. & Ad.	Bay Chaleur.
iv	1	46	iv	15	acuminata M. & Ad.	Gulf St. Lawr'ce.
iv	1	47	iv	16	Trochus occidentalis M. & Ad.	Casco bay.
iv	1	48	iv	22	Cingula latior M. & Ad.	Casco bay.
iv	1	49	iv	24	arenaria M. & Ad.	Casco bay.
					<i>Turbo arenarius</i> Mont.	
iv	1	49	iv	23	semicostata M. & Ad.	Casco bay.
					<i>Turbo semicostata</i> Mont.?	
iv	1	50	iv	20	Turritella costulata M. & Ad.	Casco bay.
iv	1	50	iv	19	reticulata M. & Ad.	Bay Chaleur.
v	1	51	iv	21	Pleurotoma violacea M. & Ad.	Casco bay.
					<i>Fasciolaria ligata</i> M. & Ad.	Gulf St. Lawr'ce.
					Fusus cancellatus M. & Ad.	Casco bay.
					Nucula antiqua M. & Ad., fossil.	Portland, Me.
					ta M. & Ad., fossil.	Portland, Me.

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¹ The shells described in the Proceedings from the Wilkes Exploring Expedition were also published in pamphlet form, with separate folios, as "The Expedition Shells."—W. G. B.

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Dec. 1841				J. S. Phillips.	
i	133			<i>Helix bidentifera</i> Phillips = <i>H. barbula</i> .	Portugal, not North Carolina.
May, 1842				S. S. Haldeman. —Notes on Nomenclature of <i>Uniones</i> , &c.	
i	177				
Nov. 1842				I. Lea. —Notes on the same.	
i	215				
Mar. 1853				J. G. Anthony. —Note on <i>Melatoma</i> and <i>Apella scissura</i> <i>Mighels</i> (<i>Schizostoma</i>).	
i	251				
ii				J. G. Anthony.	
				[Several lists of Ohio shells presented by Mr. ANTHONY are given in this volume. As no descriptions are added, I have not quoted them. In Dec. 1844 (vol. ii, p. 161), <i>Melania abjecta</i> Hald. and <i>Paludina subsolida</i> Anth. occur.—W. G. B.]	
Oct. 1845				Leidy. —List of recent Fresh-water Univalves found Fossil in White Pond, N. J.: by Dr. JOSEPH LEIDY.	
ii	281				
Feb. 1846				Haldeman. —Notice of introduction of Western <i>Uniones</i> into the Susquehanna: by S. S. HALDEMAN.	
iii	15				
iii	19			Conrad. —Descriptions of new species of Fossil and Recent Shells and Corals: by T. A. CONRAD.	
iii	23	i	1	<i>Cyrena Floridana</i> Conr.	Tampa Bay.
iii	24	i	13	<i>Venus cuneimeris</i> Conr.	Tampa Bay.
iii	24	i	4	<i>Nucula eborea</i> Conr.	Keys of Tampa Bay.

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iii	24	i	8	<i>Modiola papyria</i> <i>Conr.</i>	Tampa Bay.
iii	24	i	3	<i>Astarte flabella</i> <i>Conr.</i>	Tampa Bay, Egmont
iii	24	i	6	<i>triquetra</i> <i>Conr.</i>	Tampa Bay. [Key.
iii	24	i	7	<i>Osteodesma hyalina</i> ?	Florida.
iii	24	i	10	<i>Solecortus fragilis</i> (var.)	Egmont Key, Tampa
iii	24			<i>Lucina nassula</i> <i>Conr.</i>	Tampa Bay. [Bay.
iii	25	i	2	<i>Corbula limatula</i> <i>Conr.</i>	Coast of Florida.
iii	25	i	9	<i>Polia tineta</i> <i>Conr.</i>	Tampa Bay.
iii	25	i	12	<i>cancellaria</i> <i>Conr.</i>	Ship Isl., G'f of Mex.
iii	25			<i>Murex cellulosa</i> <i>Conr.</i>	Tampa Bay.
iii	25			<i>Tampaensis</i> <i>Conr.</i>	Tampa Bay.
iii	25			<i>ostrearum</i> <i>Conr.</i>	Tampa Bay.
iii	26	i	17	<i>Marginella succinea</i> <i>Conr.</i>	Tampa Bay.
iii	26			<i>albilabris</i> <i>Conr.</i>	Tampa Bay.
iii	26	ii	34	<i>Oliva mutica.</i>	St. Joseph's Bay, Fla.
iii	26	ii	35	<i>Trochus Tampaensis</i> <i>Conr.</i>	Tampa Bay.
iii	26	i	18	<i>Triton lineolatum</i> <i>Conr.</i>	Tampa Bay.
iii	26			<i>Cerithium protextum</i> <i>Conr.</i>	Tampa Bay?
iii	26	i	5	<i>Bulla succinea</i> <i>Conr.</i>	Tampa Bay. [Bay.
iii	26			<i>Crepidula maculosa</i> <i>Conr.</i>	Mullet Key, Tampa
iii	27			<i>Dentalium eboreum</i> <i>Conr.</i>	S. coast of Florida.
June, 1846				S. S. Haldeman. —Description of—	
iii	75			<i>Unio abacoides</i> <i>Hald.</i>	[East Tennessee.
Dec. 1840				Leidy. —On the situation of the Olfactory Sense in	
iii	136			the Terrestrial Tribe of the Gasteropodous Mollusca:	
				by JOSEPH LEIDY, M. D.	
iii	137			Leidy. —On the same in <i>Helix pomatia</i> .	
Dec. 1848				Conrad. —Descriptions of two new genera and new	
				species of Recent Shells, &c.: by T. A. CONRAD.	
iv	121			<i>Parapholas</i> <i>Conr.</i> (n. g.)	
iv	121			<i>Californica</i> <i>Conr.</i>	
				<i>Pholas Californica</i> <i>Conr.</i>	
iv	121			<i>Cryptomya</i> <i>Conr.</i> (n. g.)	
iv	121			<i>Californica</i> <i>Conr.</i>	
				<i>Sphæria Californica</i> <i>Conr.</i>	
iv	121			<i>Lyonsia Floridana</i> <i>Conr.</i>	
				<i>Osteodesma hyalina</i> <i>Conr.</i> , preoc. iii, 24.	
iv	121			<i>Leguminaria Floridana</i> <i>Conr.</i>	
				<i>Solecortus fragilis</i> <i>Conr.</i> , preoc. iii, 54.	
iv	121			<i>Psammobia Californica</i> <i>Conr.</i> , Journ. 7.	
Feb. 1849				Conrad. —Descriptions of new Fresh-water and Ma-	
				rine Shells: by T. A. CONRAD.	
iv	152			<i>Unio securiformis</i> <i>Conr.</i>	Flint river, Ga.
iv	152			<i>stagnalis</i> <i>Conr.</i>	Ogeechee river, Ga.
iv	153			<i>Ogeecheensis</i> <i>Conr.</i>	Ogeechee river, Ga.
iv	153			<i>aratus</i> <i>Conr.</i>	Flint river, Ga.
iv	153			<i>rosaceus</i> <i>Conr.</i>	Savannah river.

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iv	153	Unio contrarius <i>Conr.</i>	Ogeechee river.
iv	154	nucleopsis <i>Conr.</i>	Etowah river.
iv	154	limatulus <i>Conr.</i> [p. 162.]	Savannah river.
iv	154	aratus (plectophorus) <i>Conr. on</i>	Flint river, Ga.
iv	154	Margaritana Etowahensis <i>Conr.</i>	Etowah river.
iv	154	Melania cœlatura <i>Conr.</i>	Savannah river.
iv	154	perangulata <i>Conr.</i>	Savannah river.
iv	155	nebulosa <i>Conr.</i>	Savannah river.
iv	155	percarinata <i>Conr.</i>	Savannah river.
iv	155	symmetrica <i>Conr.</i>	Savannah river.
iv	155	Solecardia <i>Conr.</i> (n. g.)	Lower Califa or Peru.
iv	155	eburnea <i>Conr.</i>	Lower Califa or Peru.
iv	155	Petricola sinuosa <i>Conr.</i>	Lower Califa or Peru.
iv	155	Cyathodonta <i>Conr.</i> (n. g.)	Lower Califa or Peru.
iv	156	undulata <i>Conr.</i>	Lower Califa or Peru.
iv	156	Pholadopsis <i>Conr.</i> (n. g.)	Lower Califa or Peru.
iv	156	pectinata <i>Conr.</i>	Lower Califa or Peru.
iv	156	Parapholas bisulcata <i>Conr.</i>	Lower Califa or Peru.
iv	156	Penitella Wilsoni <i>Conr.</i>	Lower Califa or Peru.
iv	156	Triton perforatus <i>Conr.</i>	Lower Califa or Peru.
iv	156	Oliva propatula <i>Conr.</i>	Lower Califa or Peru.
Apr.	1849.	Keller. —On Ciliary Cells in some Maine Naked Mollusca in Embryo (Holis, Acteon viridis, Cantops Harvardianus Agassiz): by WILLIAM KELLER, M. D.	
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Feb.	1850.	Conrad. —Descriptions of new species of Fresh-water Shells: by T. A. CONRAD.	
v	10	Unio Aberti <i>Conr.</i>	Verdigris river, Ark.
Mar.	1852.		
vi	54	Lea. —Note on the Periodicity of Naiades: by ISAAC LEA.	
Apr.	1852.		
vi	58	Lea. —Remarks on Species and on Agassiz's Division of the Naiades: by ISAAC LEA.	
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vi	199	<i>Cryptodon</i> , <i>preoc.</i> = Schizothærus .	
vi	199	<i>Nuttallii</i> <i>Conr.</i> = Schizothærus Nuttallii .	
vi	199	<i>Unio turgidus</i> Lea = U. Mortoni <i>Conr.</i>	
Feb.	1853.	Conrad. —Synopsis of the Family of Naiades of North America, with Notes, and a table of some of the genera and subgenera of the family, according to their geographical distribution, and descriptions of genera and subgenera: by T. A. CONRAD. [Also in pamphlet form.]	
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vi	244	Aberti <i>Conr.</i>	vi 244 amœnus <i>Lea.</i>
		<i>U. Lamarckianus</i> <i>Lea.</i>	vi 244 amygdalum <i>Lea.</i>
vi	244	acutissimus <i>Lea.</i>	vi 244 atilis <i>Conr.</i>

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vi	245	Unio angustatus Lea.	vi	246	Unio Clarkianus Lea.
vi	245	apiculatus Say. <i>U. asper</i> Jay, not Lea.	vi	246	clava Lam. <i>U. mytiloides</i> Raf.
vi	245	approximus Lea.			<i>scalenia</i> Raf.
vi	245	arctior Lea.			<i>cuneatus</i> Raf.
vi	245	arctatus Conr.			<i>modioliformis</i> Say.
vi	245	arcus Conr.			<i>clacus</i> Lea.
vi	245	argenteus Lea.	vi	247	coccineus Hild.
vi	245	asper Lea. <i>U. apiculatus</i> Jay (var.)	vi	247	collinus Conr.
vi	245	Barrattii Lea.	vi	247	complanatus Soland. <i>Mya complanata</i> Soland.
vi	245	Barnesianus Lea.			<i>U. complanatus</i> Lea.
vi	245	biangulatus Lea.			<i>violaceus</i> Speng.
vi	245	Bigbyensis Lea.			<i>coarctata</i> Lam.
vi	245	Binneyi Lea.			<i>purpurascens</i> Lam.
vi	245	Blandingianus Lea.			<i>rhombula</i> Lam.
vi	245	Bournianus Lea.			<i>carinifera</i> Lam.
vi	245	Brumbyanus Lea.			<i>Georgina</i> Lam.
vi	245	Boydianus Lea.			<i>sulcidens</i> Lam.
vi	245	Buckleyi Lea.			<i>glabrata</i> Lam.
vi	245	Buddianus Lea.			<i>rarisulcata</i> ? Lam.
vi	245	buxeus Lea.			<i>aurata</i> Raf.
vi	245	bullatus Raf. <i>U. verrucosus albus</i> Hild. <i>pustulosus</i> Lea.			<i>jejunus</i> ? Lea.
vi	245	capax Green. <i>Symphynota globosa</i> Lea. <i>U. capax</i> Küst.			<i>Roanokensis</i> ? Lea.
vi	245	cælatus Conr.	vi	247	concauus Lea.
vi	246	caliginosus Lea.	vi	247	congaræus Lea.
vi	246	callosus Lea.	vi	247	compressissimus Lea.
vi	246	camptodon Say. <i>U. Sayi</i> Lea, not Tapp.	vi	247	Conradicus Lea.
vi	246	capsæformis Lea.	vi	247	contrarius Conr.
vi	246	cardium Raf. <i>U. ventricosus</i> Barnes. <i>occidens</i> Lea. <i>subovatus</i> Lea. <i>ovata</i> Lam. (var. b?)	vi	247	constrictus Conr.
vi	246	cariosus Say. <i>U. ovata</i> Valen. <i>cariosus</i> Küst. <i>Lampsilis cariosa</i> Agas.	vi	247	Cooperianus Lea.
vi	246	Carolinianus Bosc. [MS. <i>U. obesus</i> Lea.	vi	247	cor Conr.
vi	246	castaneus Lea.	vi	247	cordatus Raf. (Obocaria).
vi	246	catillus Conr.	vi	247	creperus Lea.
vi	246	cerinus Conr. <i>U. flavus</i> Lea, not Raf.	vi	247	crocatus Lea.
vi	246	cicatricosus Say. <i>U. varicosus</i> Lea.	vi	247	Cumberlandianus Lea. <i>U. Cumberlandicus</i> <i>glaber</i> ? Lea. [Chenu.
vi	246	Cincinnatiensis Lea.	vi	247	cuneolus Lea.
vi	246	Claibornensis Lea. <i>U. obtusus</i> ? Lea.	vi	248	Cuvierianus Lea
			vi	248	cyphius Raf. <i>U. Æsopus</i> Green.
			vi	248	cylindricus Say. <i>U. naviformis</i> Lam.
					<i>Elipio solenoides</i> Raf.
					<i>Theliderma cylindrica</i> Swains.
					<i>U. cylindricus</i> Hild.
			vi	248	cyrenoides Phillipi.
			vi	248	dactylus Lea.
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			vi	248	decisus Lea.

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vi	248	Unio declivis Say.	vi	249	Unio fraternus Lea.
		<i>U. geometricus</i> Lea.	vi	249	fulgidus Lea.
vi	248	delumbis Conr.	vi	250	furvus Conr.
		<i>U. modioliformis</i> Lea.			<i>U. Hanleyanus?</i>
vi	248	decoratus Lea.			<i>Troschelianus?</i>
vi	248	dilatatus Raf. (<i>Elliptio</i>).	vi	250	fuliginosa Lea.
		<i>U. cuprea</i> Raf.	vi	250	fuscatus Lea.
		<i>atroviolacea</i> Raf.	vi	250	Geddingsianus Lea.
		(<i>Obliquaria</i>).	vi	250	Georgianus Lea.
		<i>nasutus</i> Lam., not S.	vi	250	gibber Lea.
		<i>gibbosus</i> Barnes.	vi	250	Gibbesianus Lea.
		<i>arctior?</i> Lea. (y'ng).	vi	250	glaber Lea.
vi	248	discus Lea.	vi	250	glans Lea.
vi	248	dolabraeformis Lea.			<i>U. Brumbyanus</i> Lea.
vi	248	dolabelloides Lea.	vi	250	Gouldii Lea.
vi	248	Dorfeuilianus Lea.	vi	250	graniferus Lea.
vi	248	dromas Lea.	vi	250	Greenii Conr.
		<i>U. caperatus</i> Lea.			<i>U. simplex</i> Lea.
vi	248	Duttonianus Lea.	vi	250	Griffithianus Lea.
vi	248	Edgarianus Lea.	vi	250	Haleianus Lea.
vi	248	Eastbrookianus Lea.	vi	250	Hayesianus Lea.
vi	248	exiguus Lea.	vi	250	hebes Lea.
vi	2 9	excultus Conr.	vi	250	heterodon Lea.
		<i>U. declivis</i> Lea, not Say.	vi	250	Holstonensis Lea.
vi	249	famelicus Gould.	vi	250	hyalinus Lea.
vi	249	fasciolaris Raf.	vi	250	Hydianus Lea.
		<i>U. phaseolus</i> Hild.			<i>U. Claibornensis?</i> Lea.
		<i>sinuatus</i> Raf.	vi	250	icterinus Conr.
		<i>mucronatus</i> Barnes.			<i>U. fulvus</i> Lea.
		<i>planulatus</i> Lea.	vi	250	ineptus Lea.
		<i>cuneatus</i> Barnes.	vi	250	infurcatus Conr.
		<i>phuscolus</i> Say.			<i>U. securiformis?</i> Conr.
		<i>planulata</i> Desh.	vi	250	intermedius Conr.
		<i>camelus</i> Lea.	vi	250	interruptus Raf.
vi	249	fasciatus Ann.			<i>U. brevidens</i> Lea.
		<i>U. crassus?</i> Say.	vi	251	Jayensis Lea.
		<i>carinatus</i> Barnes.	vi	251	jejunus Lea. [<i>ianus?</i>]
		<i>ellipticus</i> Barnes.	vi	251	Keinerianus Lea. [<i>Kiener-</i>
vi	249	fasciolus Raf.	vi	251	Kirtlandianus Lea.
		<i>U. subangulatus</i> Lea.	vi	251	Kleinianus Lea.
vi	249	fatuus Lea.	vi	251	lanceolatus Lea.
vi	249	Fisherianus Lea.	vi	251	lapillus Say.
		<i>U. nasutus</i> Conr. (var.)			<i>U. fabalis</i> Lea.
vi	249	flavescens Lea.	vi	251	laevigatus Raf. (<i>Elliptio</i>).
vi	249	flavus Raf.			<i>U. lens</i> Lea.
		<i>U. rubiginosus</i> Lea.	vi	251	latiradiatus Conr.
vi	249	flexuosus Raf.			<i>U. interruptus</i> Lea.
		<i>U. foliatus</i> Hild.	vi	251	lazarus Lea.
vi	249	Floridensis Lea.	vi	251	Lecontianus Lea.
vi	249	folliculatus Lea.	vi	251	lenior Lea.
vi	249	Forbesianus Lea.	vi	251	Leseurianus Lea.
		<i>U. congaricus?</i> Lea.	vi	251	lineatus Lea.
vi	249	Foremanianus Lea.	vi	251	lienosus Conr.
vi	249	fragosus Conr.			<i>U. obscurus</i> Lea.

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vi	251	limatus Conr. <i>U. Tuomeyi</i> Lea. [ria.]	vi	253	nodulatus Raf. <i>U. pustulatus</i> Lea.
vi	251	lineolatus Raf. (<i>Obliqua</i> - <i>U. depressa</i> Raf., not <i>securis</i> Lea. [Lam.]	vi	253	notatus Lea.
vi	251	luridus Lea.	vi	253	Novi-Eboraci Lea.
vi	251	luteolus Lam. [Barnes. <i>U. siliquoides</i> Conr., <i>inflatus</i> Barnes. <i>Lampsilis siliquoides</i>	vi	253	nucleopsis Conr.
vi	252	lugubris Lea. [Stimp.]	vi	253	nexus Say. <i>U. arciformis</i> Lea.
vi	252	maculatus Conr. <i>U. Raveneliani</i> Lea.	vi	253	notatus Lea. <i>U. sinus</i> Lea.
vi	252	Masoni Conr.	vi	253	obliquus Lam. <i>U. obliquus</i> Fer. <i>ebenus</i> Lea. [Barn. <i>undatus</i> Desh., not <i>mytiloides</i> ? Swains., not Raf. [quario].
vi	252	mæstus Lea.	vi	253	obliquatus Raf. (<i>Obli</i> - <i>U. ridibundus</i> Say. <i>sulcatus</i> Lea.
vi	252	merus Lea.	vi	253	obovalis Raf. <i>U. solidus</i> Lea.
vi	252	Menkianus Lea.	vi	253	obtusius Lea.
vi	252	metallicus Say. <i>U. cuprinus</i> Lea.	vi	253	occidentalis Conr.
vi	252	metanever Raf. <i>U. metaneverus</i> Say. <i>nodosus</i> Barnes. <i>rugosus</i> ? Barnes. <i>metanever</i> Lea.	vi	254	ochraceus Say. [List. <i>Pectunculus fluviatilis</i> <i>Mytilus fluviatilis</i> Gmel. <i>Symph. ochracea</i> Lea. <i>U. ochraceus</i> Conr. <i>rosaceus</i> ? Conr., not
vi	252	minor Lea.	vi	254	olivarius Raf. [De Kay. <i>U. ellipsis</i> Lea.
vi	252	Mississippiensis Conr.	vi	254	Ogeecheensis Conr.
vi	252	Mortoni Conr. <i>U. turgidus</i> Lea.	vi	254	oratus Conr.
vi	252	Mühlfeldianus Lea.	vi	254	orbiculatus Hild. <i>U. abruptus</i> Say. <i>crassus</i> Conr.
vi	252	Monroensis Lea.	vi	254	ovatus Say. [Barnes. <i>U. ventricosus</i> Desh., not <i>subovatus</i> Desh., not Lea. <i>occidens</i> ? Desh., not
vi	252	Moussianus Lea.	vi	254	oviformis Conr. [Lea.
vi	252	Nashvillianus Lea.	vi	254	pallascens Lea.
vi	252	nasutus Say. <i>Mya nasuta</i> Wood. <i>U. rostratus</i> Valenc. <i>Eurinea nasuta</i> Agas.	vi	254	paliatus Lea.
vi	252	nebulosus Conr.	vi	254	paludicolor Gould.
vi	252	neglectus Lea.	vi	254	papyraceus Gould.
vi	252	nexus Say. <i>U. arciformis</i> Lea.	vi	254	parvus Barnes.
vi	253	nervosus Raf. <i>U. zig-zag</i> Lea. <i>donaciformis</i> .	vi	254	paulus Lea.
vi	253	nigellus Lea.	vi	254	pectorosus Conr. <i>U. perdix</i> Lea. <i>biangulatus</i> Lea.
vi	253	niger Raf. <i>U. incrassatus</i> Lea. <i>gibber</i> ? Lea.	vi	254	pellucidus Lea.
vi	253	nigerrimus Lea.	vi	254	penitus Conr.
vi	253	nigrinus Lea.			
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		<i>U. nux</i> Lea.			<i>Mya oblongata</i> Wood.
vi	254	perovalis Conr.			<i>U. ochraceus</i> Desh., not
vi	254	pernodosus Lea.			<i>radiatus</i> Con. [Say.
vi	255	pectitus Conr.			<i>Lampsilis radiata</i> Agas.
vi	255	personatus Say (fem'le).	vi	256	Unio Rangianus Lea. [MS.
		<i>U. capillaris</i> Lea.	vi	256	Raveneli Conr.
		<i>pileus</i> Lea (male).			<i>U. confertus</i> Lea.
vi	255	perstriatus Lea.			<i>Watereensis</i> Lea.
vi	255	Phillipsii Conr.	vi	256	rectus Lam. [tio.)
vi	255	pictus Lea.			<i>U. latissima</i> Raf. (<i>Ellip-</i>
vi	255	pilaris Lea.			<i>prælongus</i> Barnes.
vi	255	placitus Lea.			<i>rectus</i> Kust.
vi	255	planilateris Conr.			<i>Eurinea prælonga</i> Agas.
vi	255	plenus Lea.	vi	256	Reevianus Lea. [MS.
vi	255	plexus Conr.	vi	256	reflexus Raf.
		<i>U. pliciferus</i> Lea.			<i>U. cornutus</i> Barnes.
		<i>subtrapezius</i> Phillipi.	vi	256	regularis Lea.
		<i>carbonarius</i> Lea.	vi	256	retusus Lam.
vi	255	Powellii Lea.			<i>U. torsa</i> Raf.
vi	255	politus Say.			<i>obtusa</i> Cuv.
		<i>U. brevis</i> ? Lam.	vi	257	rivularis Conr. [Say.
		<i>olivarius</i> Raf., var. 2.			<i>U. declivis</i> Conr., not
		<i>brevis</i> Crouch.	vi	257	Roanokensis Lea.
		<i>subrotundus</i> Lea, not	vi	257	rosaceus De Kay.
		<i>politus</i> Conr. [Raf.	vi	257	rotundatus Lam.
vi	255	Prevostianus Lea.			<i>U. suborbiculata</i> Lam.
vi	255	prasinus Conr.			<i>decorata</i> Raf.
		<i>U. Schoolcraftensis</i> Lea.			<i>glebulus</i> Say.
		<i>nodiferus</i> Lea, not C.			<i>subglobosus</i> Lea.
vi	255	productus Conr.			<i>rotundatus</i> Lea.
vi	255	proximus Lea.	vi	257	rubellus Conr.
vi	255	pullus Conr.	vi	257	ruber Raf.
vi	255	pulvinulus Lea.			<i>U. pyramidatus</i> Lea.
vi	255	pumilus Lea.			<i>coccineus</i> Jay, not
vi	255	punicus Hald.	vi	257	rudis Conr. [Hild.
vi	255	purpuratus Lam.?			<i>U. Ravenelianus</i> Lea.
		<i>U. ater</i> Lea.	vi	257	rufusculus Lea.
		<i>lugubris</i> Say.	vi	257	Rumphianus Lea.
		<i>atra</i> Desh.	vi	257	sagittiformis Lea.
		<i>purpuratus</i> Lea.	vi	257	Sapotalsensis Lea.
		<i>Mya ventricosa</i> Soland.	vi	257	saxeus Conr.
vi	256	purpuratus Say.	vi	257	satur Lea.
		<i>U. Medellinus</i> Lea.	vi	257	securiformis Conr.
vi	256	pusillus Lea.	vi	257	semigranulosus V d. Buse.
vi	256	pygmaeus Lea.	vi	257	Shepardianus Lea.
vi	256	quadrolus Raf.	vi	257	simus Lea.
		<i>U. asperimus</i> Lea.	vi	257	sintoxia Raf.
		<i>lachrymosus</i> Lea.	vi	257	sordidus Lea.
vi	256	radiatus Lam.	vi	257	Sowerbianus Lea.
		<i>Mya radiata</i> Gmel.	vi	257	sparsus Lea.
		<i>Mya</i> Schrot.	vi	257	spatulatus Lea.
		<i>radiata</i> Dillwyn.	vi	257	spinus Lea.
		<i>pictorum tenuis</i> Chem.	vi	257	splendidus Lea.

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Pa.	Name	Vol.	Pa.	Name.
257	Unio stagnalis <i>Conr.</i>	vi	259	Unio verrucosus <i>Raf.</i>
258	stapes <i>Lea.</i>			<i>U. tuberculatus</i> <i>Barnes.</i>
258	stegarius <i>Raf.</i>	vi	259	viridis <i>Raf.</i>
	<i>U. irroratus</i> <i>Lea.</i>			<i>U. Tappanianus</i> <i>Lea.</i>
258	Stewardsonii <i>Lea.</i>	vi	260	vibex <i>Conr.</i>
258	Stonensis <i>Lea.</i>	vi	260	Whiteanus <i>Lea.</i>
258	stamineus <i>Conr.</i>	vi	260	Zeiglerianus <i>Lea</i> (<i>Zieg-</i>
258	striatus <i>Lea.</i>			<i>lerianus?</i>)
258	strigosus <i>Lea.</i>	vi	260	Metaptera alata.
258	subinflatus <i>Conr.</i>			<i>Unio alata</i> <i>Say.</i>
	<i>U. Hopetonensis?</i> <i>Lea.</i>			<i>Symphynota alata</i> <i>Lea.</i>
258	subplanus <i>Conr.</i>			<i>Unio alatus</i> <i>Lea.</i>
258	subrotundus <i>Raf., y'ng.</i>			<i>M. megaptera</i> <i>Raf.</i>
	<i>U. striatus</i> <i>Raf., old.</i>			<i>Lymnadia alata</i> <i>Swains.</i>
	<i>circulus</i> <i>Lea.</i>			<i>Unio alatus</i> <i>Kust.</i>
258	subtentus <i>Say.</i>	vi	260	fragilis.
258	subrostratus <i>Say.</i>			<i>Elliptio fragilis</i> <i>Raf.</i>
	<i>U. iris</i> <i>Lea.</i>			<i>Unio fragilis</i> <i>Swains.</i>
258	symmetricus <i>Lea.</i>			<i>fragilis</i> <i>Say.</i>
258	Tampicoensis <i>Lea.</i>			<i>gracilis</i> <i>Barnes.</i>
258	tæniatus <i>Conr.</i>			<i>Symphynota gracilis</i> <i>Lea.</i>
	<i>U. pulcher</i> <i>Lea.</i>			<i>Unio gracilis</i> <i>Lea.</i>
258	Taitianus <i>Lea.</i>	vi	260	inflata.
258	Tecomatensis <i>Lea.</i>			<i>Symphynota inflata</i> <i>Lea.</i>
258	Tennesseeensis <i>Lea.</i>			<i>Unio inflatus</i> <i>Conr.</i>
258	tener <i>Lea.</i>			<i>Alabamensis</i> <i>Conr.</i>
258	tenerus <i>Ravenel.</i>	vi	260	Ohiensis.
	<i>U. tenebrosus</i> <i>Conr.</i>			<i>Lastena Ohienis</i> <i>Raf.</i>
258	tetralasmus <i>Say.</i>			<i>Unio lævissimus</i> <i>Lea.</i>
259	teres <i>Raf.</i>	vi	260	Plectomerus <i>Conr.</i> (n. g.)
	<i>U. anodontoides</i> <i>Lea.</i>	vi	260	atromarginatus.
259	trabalis <i>Conr.</i>			<i>Unio atromarginatus</i> <i>Lea.</i>
	<i>U. Troostensis</i> <i>Lea.</i>	vi	260	Boykianus.
259	trigonus <i>Lea.</i>			<i>Unio Boykianus</i> <i>Lea.</i>
259	tortivus <i>Lea.</i> [<i>ria.</i>]	vi	260	costatus.
259	torulosus <i>Raf. (Obliqua-</i>			<i>Unio costatus</i> <i>Raf.</i>
	<i>U. gibbosus</i> <i>Raf.</i>			<i>undulatus</i> <i>Barnes.</i>
	<i>perplexus</i> <i>Lea.</i>			<i>latecostatus</i> <i>Lea.</i>
259	triqueter <i>Raf.</i>	vi	261	crassidens.
	<i>U. triangularis</i> <i>Barnes.</i>			<i>Unio crassidens</i> <i>Lam.</i>
	<i>formosus</i> <i>Lea.</i>			<i>interruptus</i> <i>Say.</i>
	<i>triangularis</i> <i>Lea.</i>			<i>trapezoides</i> <i>Lea.</i>
259	truncatus <i>Raf.</i>	vi	261	Nicklinianus.
	<i>U. elegans</i> <i>Lea.</i>			<i>Unio Nicklinianus</i> <i>Lea.</i>
259	trossulus <i>Lea.</i>	vi	261	perplicatus <i>Conr.</i>
259	tuberosus <i>Lea.</i>			<i>Unio atrocostatus</i> <i>Lea.</i>
259	tumescens <i>Lea.</i>	vi	261	plectophorus <i>Conr.</i>
259	undatus <i>Barnes.</i>	vi	261	plicatus.
259	unicolor <i>Lea.</i>			<i>Unio plicatus</i> <i>Say.</i>
259	utriculus <i>Lea.</i>			<i>Peruviana</i> <i>Lam.</i>
259	Vanuxemiensis <i>Lea.</i>			<i>rariPLICATA</i> <i>Lam.</i>
259	Vaughnianus <i>Lea.</i>			<i>Dombeyanus</i> <i>Val.</i>
259	velatus <i>Conr.</i>			<i>undulatus</i> <i>Desh.,</i>
259	venustus <i>Lea.</i>			not <i>Barnes.</i>

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		<i>Unio multiplicatus</i> Desh., crassus Bar. [not Lea. plicata Swains. Hippopus Lea.	vi	262	Strophitus (Hemiodon) argenteus. <i>Anadonta argentea</i> Lea.
vi	261	Plectomerus Sloatianus. <i>Unio Sloatianus</i> Lea. <i>plectophorus</i> ? Con.	vi	262	Arkansensis. <i>Anod. Arkansensis</i> Lea.
vi	261	Complanaria complanata. <i>Alas. complanata</i> Barn. <i>Symphy. complanata</i> Lea. <i>Unio complanata</i> Desh. <i>Katherina</i> Lea.	vi	262	calceolus. <i>Unio calceola</i> Lea. <i>Margaritana calceola</i>
		costata. <i>Alasm. costata</i> Raf. <i>rugosa</i> Barnes. <i>C. rugosa</i> Agas.	vi	263	Curreyanus. [Lea. <i>Marg. Curreyana</i> Lea.
vi	261	compressa. <i>Symphy. compressa</i> Lea. <i>Unio compressus</i> Conr. <i>C. alasmodontina</i> Stimp.	vi	263	deltoideus. <i>Marg. deltoidea</i> Lea.
vi	262	Margaritana arcuata. <i>Alasm. arcuata</i> Barnes. <i>M. margaritifera</i> Lea, not Lin. <i>arcuata</i> Stimp.	vi	263	edentulus. <i>Alasm. edentula</i> Say. <i>Anod. edentula</i> De Kay. <i>edentula</i> Lea. <i>areolata</i> Swains.
vi	262	falcata Gould.	vi	263	Etowaosis Conr.
vi	262	monodonta. <i>Unio monodontus</i> Say. <i>Alasm. monodonta</i> Fer. <i>Unio Soleniformis</i> Lea.	vi	263	fabula. <i>Marg. fabula</i> Lea.
vi	262	Alasmodontia arcuata Lea.	vi	263	Hildrethianus. <i>Marg. Hildrethiana</i> Lea.
vi	262	confragosa Say. <i>Unio confragosa</i> Desh. <i>Marg. confragosa</i> Lea.	vi	263	Holstonia? <i>Marg. Holstonia</i> Lea.
vi	262	marginata Say. <i>Unio varicosa</i> Lam. <i>Mya rugulosa</i> Wood. <i>Marg. marginata</i> Lea. <i>A. marginata</i> De Kay.	vi	263	minor. <i>Marg. minor</i> Lea.
vi	262	truncata Say, MS. <i>A. marginata</i> Aue.	vi	263	radiatus Conr. [Journ. <i>Alasm. radiata</i> Sillim. <i>Marg. radiata</i> Lea.
vi	262	Leptodea lata Raf. <i>Unio dehiscens</i> Say. <i>oriens</i> Lea. <i>dehiscens</i> Lea. <i>Anodonta lata</i> Fer. <i>Unio latus</i> Say.	vi	263	Ravenelianus. <i>Marg. Ravenelianus</i> Lea.
vi	262	leptodon Raf. <i>Unio leptodon</i> Say. <i>planus</i> Barnes. <i>An. purpurascens</i> Swain. <i>Symph. tenuissima</i> Lea. <i>Unio tenuissima</i> Lea.	vi	263	Shæfferiana. <i>Anod. Shæfferiana</i> Lea.
			vi	263	tetragona. <i>Anod. tetragona</i> Lea.
			vi	263	unadilla De Kay.
			vi	263	undulatus. <i>Anod. undulata</i> Say. <i>rugosa</i> Swains. <i>Pennsylvanica</i> Lam <i>S. undulatus</i> Stimp.
			vi	263	virgatus Conr. <i>Anod. Wardiana</i> Lea.
			vi	263	Anodonta angulata Lea.
			vi	263	Benedictensis Lea.
			vi	263	Buchanensis Lea.
			vi	263	Californiensis Lea.
			vi	263	cataracta Say. <i>A. fluvialis</i> Lea.
			vi	263	cognata Gould.
			vi	263	Couperiana Lea.
			vi	263	cylindracea Lea.
			vi	263	decora Lea.

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Vol.	Pa.	Name.	Vol.	Pa.	Name.
vi	263	Anodonta declivis <i>Conr.</i>	vi	264	Anodonta Stewartiana
		<i>A. plana</i> <i>Lea.</i>			<i>Lea.</i>
vi	264	denigrata <i>Lea.</i>	vi	264	suborbiculata <i>Say.</i>
vi	264	excurvata <i>De Kay.</i>	vi	264	subcylindracea <i>Lea.</i>
vi	264	fragilis <i>Lam.</i>	vi	264	subvexa <i>Conr.</i>
vi	264	ferruginea <i>Lea.</i>	vi	264	teres <i>Conr.</i>
vi	264	Perussaciana.	vi	264	virens <i>Lea.</i>
vi	264	Footiana <i>Lea.</i>	vi	264	Wahlamatensis <i>Lea.</i>
vi	264	gibbosa <i>Say.</i>			Notes on—
vi	264	gigantea <i>Lea.</i>	vi	264	Unio asper.
vi	264	glauca <i>Valen.</i>	vi	264	cariosus.
vi	264	grandis <i>Say.</i>	vi	265	cerinus.
		<i>A. corpulenta</i> <i>Coop., MS.</i>	vi	265	complanatus <i>Soland.</i>
vi	264	Harpenthis <i>Lea.</i>	vi	265	clava.
vi	264	imbecilis <i>Say.</i>	vi	265	nodiferus <i>Conr.</i>
		<i>A. incerta</i> <i>Lea.</i>	vi	265	ochraceus <i>Say.</i>
vi	264	implicata <i>Say.</i>	vi	265	obliquus <i>Lam.</i>
		<i>A. Newtonensis</i> <i>Lea.</i>	vi	265	plexus <i>Conr.</i>
vi	264	impura <i>Say.</i>	vi	265	prasinus <i>Conr.</i>
vi	264	linneana <i>Lea.</i>	vi	266	purpuratus <i>Lam.</i>
vi	264	lugubris <i>Say.</i>	vi	266	quadratus is not U. rugo-
vi	264	Marryattana <i>Lea.</i>			sus <i>Barnes.</i>
vi	264	marginata <i>Say.</i>	vi	266	undatus.
vi	264	Nuttalliana <i>Lea.</i>	vi	266	undulatus <i>Barnes.</i>
vi	264	oblita <i>Lea.</i>	vi	266	viridis <i>Raf.</i>
vi	264	opaca <i>Lea.</i>	vi	266	Anodonta cataracta <i>Say.</i>
vi	264	Oregonensis <i>Lea.</i>	vi	266	marginata <i>Say.</i>
vi	264	ovata <i>Lea.</i>	vi	267	Unio cuneatus <i>Raf.</i>
vi	264	pavonia <i>Lea.</i>	vi	267	fasciolus <i>Raf.</i>
vi	264	Pepiniana <i>Lea.</i>	vi	267	simplex <i>Lea.</i>
vi	264	plicata <i>Hald.</i>	vi	267	triangularis <i>Raf.</i>
vi	264	salmonia <i>Lea.</i>			

Table showing the geographical range of the Families Unionidæ, Muteladæ, and Mycetopodidæ, and some of the genera and subgenera.

ASIA.		AFRICA.	
Family Unionidæ.		Family Muteladæ.	
SUBGENERA.		vi 267	Mutela <i>Scopoli.</i>
vi 267	Naia <i>Swains.</i>	vi 267	Iridella <i>Conr.</i>
vi 267	Lanceolaria <i>Conr.</i>	vi 267	Pleiodon <i>Conr.</i>
vi 267	Monodontina <i>Conr.</i>	vi 267	Calliscapa <i>Swains.</i>
GENERA.		<i>Spatha</i> <i>Lea.</i>	
vi 267	Barbala <i>Humph.</i>	Family Unionidæ.	
vi 267	Hyriopsis <i>Conr.</i>	SUBGENUS.	
vi 267	Nodularia <i>Conr.</i>	vi 267	Cælatura <i>Conr.</i>
EUROPE.		AUSTRALIA.	
SUBGENERA.		Family Unionidæ.	
vi 267	Mysca <i>Turton.</i>	vi 267	Hyridella <i>Swains.</i>
vi 267	Potamida <i>Swains.</i>		

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vi	267	Parreysia <i>Conr.</i>			SOUTH AMERICA.
		<i>U. multidentatus</i> Parreyss.			Family Muteladae.
vi	267	Cucumaria <i>Conr.</i>			GENERA.
		NORTH AMERICA.	vi	267	Lella <i>Gray.</i>
		Family Unionidae.	vi	267	Paxyodon <i>Schum.</i>
		SUBGENERA.	vi	267	Prisodon <i>Schum.</i>
vi	267	Eurinea <i>Raf.</i>			SUBGENUS.
vi	267	Lampsilis <i>Raf.</i>	vi	267	Iridea <i>Swains.</i>
vi	267	Canthyria <i>Swains.</i>			Fam. Mycetopodidae.
vi	267	Theliderma <i>Swains.</i>	vi	267	Mycetopus <i>D'Orb.</i>
vi	267	Cunicula <i>Swains.</i>			Family Unionidae.
		GENERA.			GENERA.
vi	267	Metaptera <i>Raf.</i>	vi	267	Lamproscapha <i>Swains.</i>
vi	267	Strophitus <i>Raf.</i>	vi	267	Monocoondylaea <i>D'Orb.</i>
vi	267	Lastena <i>Raf.</i>	vi	267	Byssodonta <i>D'Orb.</i>
vi	267	Complanaria <i>Swains.</i>			SUBGENUS.
vi	267	Alasmodonta <i>Say.</i>	vi	267	Corrugaria <i>Conr.</i>
		SUBGENERA OF UNIO.			
		NODULARIA <i>Conr.</i>			GLEBULA <i>Conr.</i>
vi	268	Unio Douglasiae <i>Gray.</i>			Louisiana.
		IRIDEA <i>Swains.</i>	vi	268	Unio rotundatus <i>Lam.</i>
vi	268	Unio granosus <i>Lam.</i>			UNIOMERUS <i>Conr.</i>
vi	268	solisiana <i>D'Orb.</i>			Southern States.
vi	268	Paranensis <i>Lea.</i>	vi	268	Unio declivis.
vi	268	rhuaeoica <i>D'Orb.</i>	vi	268	camptodon.
vi	268	Fontainiana <i>D'Orb.</i>	vi	268	subcroceus.
vi	268	hylaæ <i>D'Orb.</i>	vi	268	Sayii.
vi	268	Guaraniana <i>D'Orb.</i>	vi	268	rivularis.
vi	268	Matoniana <i>D'Orb.</i>	vi	268	perrectus.
vi	268	Psammoica <i>D'Orb.</i>	vi	268	symmetricus.
vi	268	charruana <i>D'Orb.</i>	vi	268	excultus.
		MYSKA <i>TURTON.</i>			THELIDERMA <i>Swains.</i>
vi	268	Unio pictorum.	vi	269	Unio Phillipsea.
		LANCEOLARIA <i>Conr.</i>	vi	269	fragosus, &c.
vi	268	Unio Grayanus <i>Lea.</i>			LAMPSILIS <i>Raf.</i>
		CCELATURA <i>Conr.</i>	vi	269	Unio ochraceus.
vi	268	Unio Ægyptiacus <i>Caill.</i>	vi	269	ovatus, &c.
		CUNICULA <i>Swains.</i>			EURINEA <i>Raf.</i>
		North America.	vi	269	Unio nasutus, &c.
vi	268	Unio fasciolaris.			PROPOSED NEW GENERA.
vi	268	lineolatus.			CUCUMARIA <i>Conr.</i>
vi	268	Eastbrookianus.	vi	269	Unio cucumoides <i>Lea.</i>
vi	268	subtentus.			HYRIOPSIS <i>Conr.</i>
vi	268	cœlatus.	vi	269	Unio delphinus <i>Gruner.</i>
vi	268	arcus, &c.			

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		MONODONTINA CONR.			CORRIGENDA.
vi	269	<i>Margaritana Vondenburgiana</i> Lea. (<i>M. Buschiana</i> Conr.)	vi	269	<i>Unio angustatus</i> Lea.
			vi	269	<i>capax</i> Green (<i>Symphynota globosa</i> Lea).
			vi	269	<i>capaxformis</i> Lea. [rus.
			vi	269	metanever read <i>U. metaneu-</i>
April, 1833.					
Vol.	Page.	Conrad. —Monograph of the genus <i>Fulgur</i> : by T. A. CONRAD.			
vi	316				
		Name.			Locality.
vi	319	<i>Fulgur carica</i> (<i>Murex</i>) Gmelin. <i>Pyrula carica</i> Lam. <i>aruana</i> Rve. non L.			Georgia to Mass.
vi	319	<i>canaliculatum</i> (<i>Pyrula</i>) Lam. <i>Buccinum ampullaceum</i> Lister. <i>Murex canaliculatus</i> L. <i>Pyrula canaliculata</i> Rve.			N. J., R. I., Mass.
vi	319	<i>perversum</i> (<i>Murex</i>) Linn. <i>Buccinum</i> , &c. Lister. <i>Pyrula perversa</i> Lam.			Southern coast.
vi	319	<i>pyrum</i> (<i>Bulla</i> Dillw.) <i>Buccinum</i> , &c. Lister. <i>Bulla ficus</i> Gmelin. <i>Pyrula spirata</i> Lam., Rve. <i>F. pyruloides</i> Say. <i>Pyrula spirata</i> Rve.			Southern coast of Fla.
vi	319	<i>candelabrum</i> (<i>Pyrula</i>) Lam.			
vi	319	<i>gibbosum</i> Conrad. <i>Pyrula perversa</i> Kiener (var.)			Campeachy? U. S.?
T. A. Conrad. —Notes on Shells.					
vi	320	<i>Dreissena leucophæatus</i> Conrad. <i>Mytilus leucophæatus</i> Conrad.			Virginia.
vi	320	<i>Artemis concentrica</i> . <i>A. acetabulum</i> Conrad (fossil). <i>Venus concentrica</i> Born.			Florida.
vi	320	<i>elegans</i> Conrad. <i>A. concentrica</i> Rve. non Born.			Florida.
vi	220	<i>discus</i> Reeve <i>Cytherea concentrica</i> Chenu non			[Born. S'n and Middle States.
Dec. 1833.					
vi	448	Conrad. —Synopsis of the genus <i>Cassidula</i> Humphr., and of a proposed new genus <i>Athleta</i> : by T. A. CONRAD. [The only American species.—W. G. B.]			
vi	449	<i>Cassidula corona</i> . <i>Pyrula putula</i> Brod. <i>Murex corona</i> Gmelin. <i>Fusus corona</i> Lam. <i>Buccinum ornatum</i> Say. <i>Melongenæ corona</i> .			Florida.

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		Conrad. —Omissions and Corrections to the Synopsis of North American Naiades: by T. A. CONRAD.			
vi	449	Unio perobliquus Conrad.			
vi	449	Rangianus Lea.			
vi	449	Sageri Conrad.			
vi	449	Stroph. Etowaensis.			
vi	449	Monodontina Buschiana Conrad.			
		<i>Margarita Von der Buschiana</i> Lea.			
vi	449	<i>Unio pectitus</i> = Scalenaria Agassiz.			
vi	449	<i>Aberti</i> = Crypogenia Agassiz.			
vi	449	<i>fragosus</i>	} = Quadrula Agassiz.		
vi	449	<i>nobilis</i>			
vi	449	<i>apiculatus</i> }			
Mar.	1834.	Conrad. —Notes on Shells, with descriptions of three recent and one fossil species: by T. A. CONRAD.			
vii	31	<i>Gnathodon rostratum</i> Petit = G. flexuosum.			
vii	31	<i>trigonum</i> Petit = G. Lecontei Conrad?			
vii	31	<i>Trigonella</i> Conrad = Pachydesma.			
vii	31	Dolium album Conrad.			
vii	32	Alasmodonta ——— Conrad.			
Dec.	1834.	Lea. —Rectification of Mr. T. A. Conrad's Synopsis of the Family of Naiades, &c.: by ISAAC LEA.			
vii	236	[Mr. LEA's views of synonymy being included in his synopsis, are not quoted here. As regards errors of dates, the following are specified.—W. G. B.]			
		Name.	Mr. Conrad's date.	Mr. Lea's date of reading.	Mr. Lea's date of distribution.
vii	242	Unio lanceolatus Lea.	1832 }	1827	1828
vii	242	irroratus Lea.	1832 }		
vii	243	occidens Lea.	1832 }	1829	1829
vii	243	rubiginosus Lea.	1832 }		
		&c.			
Jan.	1835.	Conrad. —Descriptions of three new species of Unio: by T. A. CONRAD.			
		Name.		Locality.	
vii	256	Unio grandensis Conrad.		Rio Grande, Texas.	
vii	256	Taumilapasensis Conrad.		San Juan riv, Taumila-	
vii	256	Pearlensis Conrad.		Pearl riv., Miss. [pas.	
Feb.	1835.	Conrad. —Description of a new species of Melania: by T. A. CONRAD.			
vii	269	Melania exigua Conrad.		[Colorado Des., Cal.	
Apr.	1836.	Lea. —Descriptions of new Fresh-water Shells from California: by ISAAC LEA.			
viii	80	Pompholyx Lea (n. g.)			
viii	80	effusa Lea.		Sacramento riv., Cal.	
viii	80	Melania Shastaensis Lea.		Shasta & Scott riv, Cal.	
viii	80	nigrina Lea.		Clear cr., Shasta Co, Ca.	

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Vol.	Page.	Name.	Locality.
viii	80	<i>Physa triticea</i> Lea.	Shasta County, Cal.
viii	80	<i>Planorbis Traskii</i> Lea.	Kern lke., Tulan Co., Ca.
viii	80	<i>Lymnæa proxima</i> Lea.	Arroya S. Antonio, Ca.
viii	80	<i>Ancylus patelloides</i> Lea.	Sacramento river, Cal.
Notes on—			
viii	80	<i>Margaritana margaritifera</i> Lea.	Klamath and Yuba.
		<i>Atasmodontia falcata</i> Gould.	
		<i>Yubensis</i> Trask.	
viii	81	<i>Anodonta Wahlamatensis</i> Lea.	Sacramento river.
		<i>A. triangulata</i> Trask.	
		<i>rotundovata</i> Trask.	
viii	81	<i>angulata</i> Lea.	Upper San Joaquin.
		<i>A. fimalis</i> Gould.	
		<i>Randalli</i> Trask.	[Co., Cal.
viii	81	<i>Helix Oregonensis</i> Lea.	P't Cypress, Monterey
viii	81	<i>Nickliniana</i> Lea.	Tomales Bay & Dead
			Man's Island.
viii	81	<i>Californiensis</i> Lea.	Point Cypress.
viii	81	<i>Lymnæa exigua</i> Lea.	San Antonio Arroya.
viii	81	<i>pallida</i> Adams.	San Antonio Arroya.
viii	81	<i>Physa heterostrophæ</i> Say.	Los Angeles.
viii	81	<i>Melania occata</i> Hinds.	Sacramento river.
viii	81	(<i>Paludina</i>) <i>seminalis</i> Hinds.	Sacramento river.
viii	81	<i>Planorbis trivolis</i> Say.	Horn lake. [Valley.
viii	81	<i>ammon</i> Gould.	Lagoons, Sacramento
viii	92	Lea.—Descriptions of twenty-four new species of Exotic Uniones: by ISAAC LEA.	
viii	95	<i>Unio umbrosus</i> Lea.	Medellin river, Mex.
May, 1856.		Lea.—Descriptions of four new species of Exotic Uniones: by ISAAC LEA.	
viii	103	<i>Unio Coloradoensis</i> Lea.	Rio Colorado, Texas
Aug. 1856.		Lea.—Descriptions of fifteen new species of Exotic Melanoida: by ISAAC LEA.	
viii	145	<i>Melania rubida</i> Lea.	Mexico.
Sept. 1856.		Lea.—Description of the byssus in the genus Unio: by ISAAC LEA.	
viii	213		
Nov. 1856.		Lewis.—List of Mollusca in Little Lakes, Otsego County, New York: in a letter from Dr. JAMES LEWIS.	
Vol. Pa.	Name.		Vol. Pa. Name.
viii 259	<i>Unio radiatus</i> Lam.		viii 259 <i>Pisidium ventricosum</i>
viii 259	<i>Anodonta</i> — ?		(? <i>obtusale</i> Pfr.) [Prime.
viii 259	<i>Cyclas similis</i> Say.		viii 259 <i>Lymnæa gracilis</i> Jay.
viii 259	<i>rhomboidea</i> Say.		viii 259 <i>columella</i> Say.
viii 259	<i>crocea</i> Say.		viii 259 <i>appressa</i> Say.
viii 259	<i>Pisidium variabile</i> Prime.		viii 260 — ?
viii 259	<i>compressum</i> Prime.		viii 260 <i>disidiosa</i> Say.

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Vol.	Pa.	Name.	Vol.	Pa.	Name.
viii	260	<i>Lymnaea humilis</i> Say.	viii	260	<i>Ancylus</i> ———.
viii	260	<i>Planorbis trivolvus</i> Say.	viii	260	———.
viii	260	var. <i>corpulentus</i> .	viii	260	<i>Paludina decisa</i> Say.
viii	260	<i>campanulatus</i> Say.	viii	260	<i>Amnicola limosa</i> Say.
viii	260	<i>bicarinatus</i> Say.	viii	260	(Pal.) <i>pallida</i> Lea?
viii	260	<i>hirsutus</i> Say.	viii	260	<i>Valvata tricarinata</i> Say.
viii	260	<i>deflectus</i> Say.	viii	260	var. <i>bicarinata</i> Lea.
viii	260	<i>parvus</i> Say.	viii	260	<i>sincera</i> Say.
viii	260	<i>Physa heterostropha</i> S.	viii	260	<i>striata</i> Lewis.
Lea.—Descriptions of eleven new species of Exotic Uniones from Georgia: by ISAAC LEA. [For localities, vide "Journ. Acad. Nat. Sci. of Philad."—W. G. B.]					
viii	262	<i>Unio Elliottii</i> Lea.	viii	262	<i>Unio vicinus</i> Lea.
viii	262	<i>gracilior</i> Lea.	viii	262	<i>subellipsis</i> Lea.
viii	262	<i>pullatis</i> Lea.	viii	262	<i>geminus</i> Lea.
viii	262	<i>favosus</i> Lea.	viii	262	<i>rostraeformis</i> Lea.
viii	262	<i>rutilans</i> Lea.	viii	263	<i>Blandianus</i> Lea.
viii	262	<i>errans</i> Lea.			

Lea, W. G. Binney, &c.—In the new series of the Proceedings of the Academy of Natural Sciences of Philadelphia, occur the following:—

[The volumes of this series are not numbered.—W. G. B.]

1857, Page.	Name.	Locality.	
Jan. 17	Lea. —Observations on the Visual Organs of Unio: by ISAAC LEA.		
Feb.	W. G. Binney. —Descriptions of American Land Shells: by W. G. BINNEY.		
18	Helix intercisa <i>W. G. Binney.</i> <i>H. Nickliniana</i> Binney (var.)	Oregon.	
19	Succinea lineata <i>W. G. Binney.</i>	Nebraska.	
Lea. —Descriptions of thirteen new species of Uniones from Georgia: by ISAAC LEA. [For localities, vide "Journ. Acad. Nat. Sci. of Philad."—W. G. B.]			
	Name.	Page.	
31	Unio Blandianus <i>Lea.</i>	32	Unio excavatus <i>Lea.</i>
31	concestator <i>Lea.</i>	32	radians <i>Lea.</i>
31	extensus <i>Lea.</i>	32	rubellinus <i>Lea.</i>
31	pyriformis <i>Lea.</i>	32	umbrosus <i>Lea.</i>
31	Columbensis <i>Lea.</i>	32	apicinus <i>Lea.</i>
32	fallax <i>Lea.</i>	32	Othcaloogensis <i>Lea.</i>
32	intercedens <i>Lea.</i>		

[Proceedings of the Acad. of Nat. Sci. of Philad., n. s.—continued.]

1857. Page.	Name.	1857. Page.	Name.
March.	Lea. —Descriptions of six new species of Uniones from Alabama: by ISAAC LEA.		
83	Unio propinquus Lea.	83	Unio mundus Lea.
83	Florentinus Lea.	83	Thorntoni Lea.
83	bimarginatus Lea.	83	Moorensianus Lea.
	Lea. —Descriptions of eight new species of Naiades from various parts of the United States: by ISAAC LEA.		
84	Unio pinguis Lea.	84	Unio Texasiensis Lea.
84	Higginsii Lea.	84	Anodonta Lewisii Lea.
84	Abbevillensis Lea.	84	lacustris Lea.
84	Jamesianus Lea.	84	modesta Lea.
	Lea. —Descriptions of three new species of Naiades: by ISAAC LEA.		
85	Unio Poeyanus Lea.	85	Unio Canadensis Lea.
85	Coyucan, Mex.		Montreal.
	Lea. —Descriptions of twelve new species of Naiades from North Carolina: by ISAAC LEA.		
85	Unio Wheatleyi Lea.	86	Unio spadiceus Lea.
85	percoarctatus Lea.	86	insulsus Lea.
85	gracilentus Lea.	86	striatulus Lea.
85	micans Lea.	86	macer Lea.
85	Genthii Lea.	86	contractus Lea.
86	Emmonsii Lea.	86	Anodonta virgulata Lea.
	I. Lea. —Note on—		
101	Unio spinosus.		
	Lea. —Descriptions of six new species of Fresh-water and Land Shells of Texas and Tamaulipas, from the collection of the Smithsonian Institution: by ISAAC LEA.		
101	Unio Berlandierii Lea.	102	Helix (Polygyra) Couch-
102	Popeii Lea.		iana Lea.
102	Bairdianus Lea.	102	Tamaulipasensis Lea.
102	Anodonta Henryiana Lea.		
May.	I. Lea.		
104	Unio umbrosus = U. umbrans Lea.		
104	Wheatleyi = U. Catawbensis Lea.		
June.	Conrad. —Descriptions of two new genera of Shells: by T. A. CONRAD.		
165	Gonidea Conr. (n. g.)	165	2 Gonidea feminalis Gld.
165	1 Randallii Trask.		Anodon feminalis Gld.
	Anodon Randallii Trask.	166	3 ? Anodon angulata Lea.

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1857. Page.	Name.	Locality.
	Conrad. —Description of a new genus of the Family Dreis- senidae: by T. A. CONRAD.	
167	Mytilopsis Conrad (nov. gen.)	Virginia.
167	leucophæatus Conrad.	
	<i>Mytilus leucophæatus</i> Conrad.	
	Lea. —Descriptions of twenty-seven new species of Uniones from Georgia: by ISAAC LEA. [For localities, vide "Journ. Acad. Nat. Sci. of Philad."—W. G. B.]	
	Name.	Page.
169	Unio subgibbosus Lea.	171
169	Savannahensis Lea.	171
169	virens Lea.	171
169	sublatus Lea.	171
169	obnubilus Lea.	171
169	opacus Lea.	171
169	similis Lea.	171
170	æquatus Lea.	171
170	naviculoides Lea.	172
170	viridicatus Lea.	172
170	subflavus Lea.	172
170	sudus Lea.	172
170	tetricus Lea.	172
170	Woodwardius Lea.	
	Name.	Name.
	Unio tenebricus Lea.	
	rufus Lea.	
	modicus Lea.	
	denigratus Lea.	
	fumatus Lea.	
	purpurellus Lea.	
	penicillatus Lea.	
	Plantii Lea.	
	subniger Lea.	
	bulbosus Lea.	
	Maconensis Lea.	
	obfuscus Lea.	
	aquilus Lea.	
Oct.	W. G. Binney. —Notes on American Land Shells, No. 2: by W. G. BINNEY.	
	Name.	Locality.
183	Helix (Polygyra) acute-dentata W. G. Binney.	Sinaloa, Mexico.
183	(Polygyra) Loisa W. G. Binney.	Sinaloa, Mexico.
184	Mooreana W. G. Binney.	Washington Co., Tex.
185	cultellata Thompson.	Contra Costa Co., Cal.
185	anachoreta W. G. Binney.	California.
185	aruginosa Gld. preoc. = H. arrosa Gld.	
186	tholus W. G. Binney (<i>Polygyra</i>).	Texas.
186	kopnodes W. G. Binney.	Alabama.
187	friabilis W. G. Binney.	Illinois.
187	redimita W. G. Binney.	California? Oregon?
188	Bulimus Dormani W. G. Binney.	St. Augustine, Fla.
189	Glandina corneola W. G. Binney.	Florida?
189	parallela W. G. Binney.	Louisiana.
	Notes on—	
	Name.	Page.
188	Helix Dupetithouarsi	189
188	labiosa Gould. [<i>Desh.</i>]	189
188	Californiensis Lea.	189
188	sportella Gould.	180
188	loricata Gould.	189
189	Rugeli Shuttl.	190
	Name.	Name.
	Helix mordax Shuttl.	
	multilineata Say.	
	clausa Say.	
	vineta Val.	
	dentifera Binney.	
	Nuttalliana Lea.	

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1857. Page.	Name.	1857. Page.	Name.
190	Helix Vancouverensis	191	Helix Buffoniana Pfr.
190	<i>egena</i> Say. [Lea.	191	<i>inflecta</i> Say.
190	<i>fallax</i> Say.	191	<i>polychroa</i> Binney.
190	<i>minutissima</i> Lea.	191	<i>selenina</i> Gould.
190	<i>costata</i> Müll.	191	<i>tenuistriata</i> Binney.
190	<i>glaphyra</i> Say.	191	<i>auriculata</i> Say.
190	<i>saxicola</i> Gld. non Pfr.	192	<i>elevata</i> Say.
190	<i>lucubrata</i> Binney non	192	<i>stenotrema</i> Fer.
190	<i>subplana</i> Binn. [Say.	192	Bulimus dealbatus Say.
190	<i>intertexta</i> Binney.	192	Achatina pellucida Pfr.
191	<i>septemvolva</i> Say.	192	Bulimus virgulatus Pfr.
191	<i>suppressa</i> Say.	192	Glandina truncata Binney.
191	<i>plicata</i> Say.	192	Helicina orbiculata Say.
191	<i>leporina</i> Gould.	192	<i>chrysocheila</i> Binney.
191	<i>maxillata</i> Gould.		
193	Notes on Say's types of American Land Shells in the Academy's collection.		
1858. March.			
13, 14	I. Lea. —Notes on the Geographical distribution of—		
	Name.	Locality.	
14	Unio rubiginosus Lea.	43° N., 37° W. and 50°	
14	<i>luteolus</i> Lam.	N., and Fort Clark,	
14	<i>lævissimus</i> Lea.	Upper Missouri, &c.	
14	<i>occidens</i> Lea.		
14	<i>anodontoides</i> Lea.		
14	<i>asperrimus</i> Lea.		
14	<i>elegans</i> Lea.		
14	<i>rectus</i> Lam.		
14	<i>zigzag</i> Lea.		
14	<i>alatus</i> Say.		
14	<i>undulatus</i> Barnes.		
14	Anodonta Ferussaciana Lea.		
14	<i>decora</i> Lea.		
14	Margaritana complanata Lea.		
	Lea. —Descriptions of new species of <i>Unio</i> from Tennessee, Alabama, and North Carolina: by ISAAC LEA.		
40	Unio turgidulus Lea.	Cumberland riv., Ten.	
		and Florence, Ala.	
40	<i>perradiatus</i> Lea.	Florence, Ala.	
40	<i>Meredithii</i> Lea.	Tenn. r., Florence, Ala.	
40	<i>Pybasii</i> Lea.	Tenn. r., Florence, Ala.	
40	<i>virescens</i> Lea.	Tenn. r., Florence, Ala.	
41	<i>Neusensis</i> Lea.	Neuse river, N. C.	
41	<i>purus</i> Lea.	Neuse river, N. C.	
41	<i>exacutus</i> Lea.	Neuse river, N. C.	

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1858. Page.	Name.	Locality.
	Lea. —Descriptions of a new <i>Helix</i> and two new <i>Planorbis</i> : by ISAAC LEA.	
41	<i>Helix Clarkii</i> Lea.	Cherokee Co., N. C.
41	<i>Planorbis Wheatleyi</i> Lea.	Montgomery Co., Ala.
41	<i>Newberryi</i> Lea.	Klamath lake & Canoe creek, Cal.
May. 114	Lea. —Observations on the Anatomy of <i>Unio</i> : by ISAAC LEA.	
	W. G. Binney. —Notes on American Land Shells, No. 3: by W. G. BINNEY.	
114	<i>Succinea Haydeni</i> W. G. Binney.	Nebraska.
115	<i>Helix Cooperi</i> W. G. Binney.	Nebraska.
115	<i>Newberryana</i> W. G. Binney.	California.
116	<i>Bulimus patriarcha</i> W. G. Binney.	Buena Vista.
June. 135	I. Lea. —Anatomy of— <i>Unio rubiginosus</i> Lea.	
	Lea. —Descriptions of seven new species of <i>Margaritana</i> and four new species of <i>Anadonta</i> : by ISAAC LEA.	
138	<i>Margaritana Elliottii</i> Lea.	Georgia.
138	<i>triangulata</i> Lea.	[For localities, vide quotations from Jour.]
138	<i>Connasaugaensis</i> Lea.	
138	<i>Etowahensis</i> Lea.	
138	<i>Gesnerii</i> Lea.	
138	<i>Tombecheensis</i> Lea.	
138	<i>Spillmanii</i> Lea.	
138	<i>Anodonta Hallenbeckii</i> Lea.	
139	<i>Gesnerii</i> Lea.	
139	<i>Dariensis</i> Lea.	
139	<i>Danielsii</i> Lea.	
July. 165	Lea. —Descriptions of twelve new species of <i>Uniones</i> and other Fresh-water Shells of the United States: by ISAAC LEA.	
165	<i>Unio Boswellensis</i> Lea.	Georgia, vide Journal.
165	<i>Postellii</i> Lea.	Georgia, vide Journal.
165	<i>Neisleri</i> Lea.	Georgia, vide Journal.
166	<i>Prattii</i> Lea.	Georgia, vide Journal.
166	<i>Chattanoogaensis</i> Lea.	Georgia, vide Journal.
166	<i>Downiei</i> Lea.	Georgia, vide Journal.
166	<i>Satillaensis</i> Lea.	Georgia, vide Journal.
166	<i>Hazelhurstianus</i> Lea.	Georgia, vide Journal.
166	<i>Melania Postellii</i> Lea.	Georgia.
166	<i>Paludina Elliottii</i> Lea.	Georgia.
166	<i>Lymnea Haydenii</i> Lea.	Yellowstone.
166	<i>Ancylus Newberryi</i> Lea.	Klamath lake, Cal.

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Name.	1858. Pa. No.	Name.
W. G. Binney. —Notes on American Land Shells, No. 4: by W. G. BINNEY.		
[The cross references of synonyms in the following catalogues are omitted.—W. G. B.]		
I.	198 29	Helix Pandoræ Forb.
Familia Limacea.	198 30	<i>H. damascenus</i> Gould.
<i>Arion foliatus</i> Gould.	198 31	ramentosa Gould.
<i>Limax Columbianus</i> Gould.	198 32	redemita W. G. Binn.
Familia Helicea.	198 33	<i>H. Nickliniana</i> (var.) Binn.
<i>Succinea cingulata</i> Forbes.	198 34	reticulata Pfr.
<i>Nuttalliana</i> Lea.	198 35	sportella Gould.
<i>Oregonensis</i> Lea.	198 36	SPECIES EXCLUSA.
<i>rusticana</i> Gould.	198 37	<i>Helix Sagrana</i> Orb.
SPECIES EXCLUSA.	198 38	Bulimus Californicus Ree.
<i>Succinea aperta</i> Lea.	198 39	chordatus Pfr.
<i>Helix acutedentata</i> W. G. Binn.	198 40	excelsus Gould.
? var. δ <i>H. Loisa</i> W. G. B.	198 41	<i>B. elatus</i> Gould, in tab.
<i>anachoreta</i> W. G. Binn.	198 42	Humboldti Ree.
<i>areolata</i> Pfr.	198 43	<i>B. Mexicanus</i> Val., nec Lam.
<i>arrosa</i> Gould in litteris.	198 44	<i>Mexicanus</i> Pfr. (excl. <i>B. Mexicanus</i> Val.)
<i>H. xruyginosa</i> Gould.	198 45	Laurentii Sowb.
<i>aspersa</i> Mull.?	198 46	Mexicanus Lam.
<i>Californiensis</i> Lea.	198 47	<i>Cochlogena vittata</i> Fer.
<i>H. vineta</i> Val.	198 48	vegetus Gould.
<i>Columbiana</i> Lea.	198 49	(<i>B. pallidior</i> Sowb.)
<i>H. labiosa</i> Gould.	198 50	vesicalis Gould.
<i>devia</i> Gould.	198 51	zebra Mull.
<i>H. Baskervillei</i> Pfr.	198 52	Ziegleri Pfr.
<i>Dupetithouarsi</i> Desh.	198 53	Achatina Californica Pfr.
<i>H. Oregonensis</i> (junior) Lea.	198 54	SPECIES EXCLUSA.
<i>exarata</i> Pfr.?	198 55	<i>Achatina Albersi</i> Pfr. = Glandina .
<i>fidelis</i> Gray.	198 56	<i>turris</i> Pfr. = Glandina .
<i>H. Nuttalliana</i> Lea.	198 57	Glandina Albersi Pfr.
<i>germana</i> Gould.	198 58	turris (<i>Achatina</i>) Pfr. [Carp.
<i>infumata</i> Gould.	198 59	<i>G. Albersi</i> var. <i>turrita</i> P. P.
<i>intercisa</i> W. G. Binn.	198 60	<i>Oleacina turris</i> Gr. et Pfr.
<i>H. Nickliniana</i> (var.) Binn.	198 61	Familia Auriculacea.
<i>Kelletti</i> Forbes.	198 62	Sub-familia Melampea.
<i>levis</i> Pfr.	198 63	Melampus olivaceus Carp.
<i>Loisa</i> W. G. Binn.	198 64	Familia Aciculacea.
(an <i>H. acutedentata</i> var.?)	198 65	Truncatella Californica Pfr.
<i>loricata</i> Gould.	198 66	<i>T. ———?</i> Carp.
<i>H. Lecontii</i> Lea.	198 67	II.
<i>Mazatlanica</i> Pfr.	198 68	Familia Limacea.
<i>Mormonum</i> Pfr.	198 69	Vaginulus Floridianus Binn.
<i>Newberryana</i> W. G. Binn.	198 70	
<i>Nickliniana</i> Lea.	198 71	
<i>H. nemoraviga</i> Val.	198 72	
<i>arboretorum</i> Val.	198 73	
<i>Californiensis</i> Pfr.	198 74	

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1858. Pa. No.	Name.	1858. Pa. No.	Name.
	SPECIES EXCLUSA.		
198	<i>Vaginulus flexuolaris</i> Grat.	199	<i>Philomycus dorsalis</i> Binney = ~~Tebennophorus dorsalis~~ .
198	<i>fuscus</i> Grat.	199	<i>flexuolaris</i> Raf.
198	<i>oxyurus</i> Grat.	199	<i>fuscus</i> Raf.
198	<i>quadrulus</i> Grat.	199	<i>lividus</i> Gr. et Pfr.
198 50	Tebennophorus Carolinensis	199	<i>nebulosus</i> Gr. et Pfr.
	(<i>Limax</i>) <i>Bosc.</i>	199	<i>Testacina</i> Raf.
	<i>Limax Carolinianus</i> DeRoissy.	199	<i>Urcinella</i> Raf.
	<i>Carolinensis</i> Fer.	199	<i>Zilotea</i> Raf.
	<i>marmoratus</i> De Kay.	199	<i>Oxyurus</i> Raf.
	<i>togata</i> Gould.	199	<i>quadrilus</i> Raf.
	<i>Philomycus Carolinensis</i> Fer.		
	<i>T. Carolinensis</i> Binn.		Familia Helicea .
198 51	dorsalis Binn.	199 57	<i>Vitrina angelicæ</i> Beck.
	<i>Philomycus dorsalis</i> Binn.		<i>Helix pellucida</i> Fabr.
	<i>Limax dorsalis</i> De Kay.		<i>domestica</i> Ström.
198 52	Arion empiricorum Fer.	199 58	<i>limpida</i> Gould.
198 53	hortensis Fer.		<i>V. pellucida</i> Say.
	SPECIES EXCLUSA.		<i>Americana</i> Pfr.
	<i>Arion foliatus</i> Gould.	199 59	Succinea aurea Lea.
198 54	Limax agrestis Müll.		<i>S. ovalis</i> teste Anthony.
	<i>L. tunicata</i> Gould.	199 60	<i>avara</i> Say.
199 55	campestris Binn.		<i>S. Wardiana</i> Lea.
199 56	variegatus Fer.		var. <i>major</i> .
	<i>L. flavus</i> Binn.	199 61	<i>campestris</i> Say.
	SPECIES EXCLUSA.	199 62	<i>concordialis</i> Gould.
199	<i>Limax Carolinianus</i> De Roissy =		<i>S. munita</i> Binn.
	Tebennophorus Carolin-	199 63	<i>effusa</i> Skutt.
	ensis.	199 64	Grœnlandica Beck.
199	<i>Carolinensis</i> Fer. = Tebennophorus Carolinensis.	199 65	Haydeni W. G. Binn.
199	<i>Columbianus</i> Gould.		var. <i>minor</i> .
199	<i>dorsalis</i> De Kay = Tebennophorus dorsalis.	199 66	<i>inflata</i> Lea.
199	<i>fuliginosus</i> Gould.		<i>S. campestris</i> , var., teste Binney
199	<i>gracilis</i> Raf.	199 67	<i>lineata</i> W. G. Binn.
199	<i>marmoratus</i> De K., vide Tebennophorus Carolinensis.	199 68	<i>luteola</i> Gould.
199	<i>olivaceus</i> Gould.	199 69	<i>obliqua</i> Say.
199	<i>togata</i> Gld. = Tebennophorus Carolinensis.		<i>S. ovalis</i> Say.
	E LIMACEIS EXCLUSA.		<i>campestris</i> Gould.
199	<i>Eumelus</i> Raf.		<i>lineata</i> De Kay.
199	<i>lividus</i> Raf.	199 70	<i>Cochlohydra ovalis</i> Fer.
199	<i>nebulosus</i> Raf.	199 71	<i>ovalis</i> Gould non Say.
199	<i>Deroceras</i> Raf.		<i>retusa</i> Lea.
199	<i>gracilis</i> Raf.		<i>S. ovalis</i> Binn.
199	<i>Philomycus</i> Raf.		<i>campestris</i> Anthony.
199	<i>Carolinensis</i> Fer. = Tebennophorus Carolinensis.	199 72	Salleana Pfr.
		199 73	Totteniana Lea.
			<i>S. obliqua</i> Binn. nec Say.
		199 74	vermeta Say = <i>S. avara</i> Say
			SPECIES EXCLUSA.
		200	<i>Succinea amphibia</i> Dr.
		200	<i>putris</i> Linn.

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58. No.	Name.	1858. Pa. No.	Name.
75	Helix albolabris Say. <i>Hel. cogens albolabris</i> Fer. <i>H. rufa</i> De Kay (junior). var. dentata .	200 90 200 91	var. laminifera . Helix chersina Say. <i>H. fulva</i> teste Chemn.
76	alternata Say. <i>Helicella alternata</i> Fer. <i>H. scabra</i> Lam. <i>radiata</i> Gmel. <i>H. infecta</i> Pfr. <i>strongylodes</i> Pfr.? var. 1. albina . 2. Australis . 3. carinata (<i>H. mordax</i>) 4. laevigatior . [Sh.?	200 92 201 93 201 9 201 95 201 96 211 97	Clarkii Lea. clausa Say. <i>H. Pennsylvanica</i> Pfr. concava Say. <i>H. planorboides</i> Pfr. <i>Helicella planorboides</i> Fer. Cooperi W. G. Binn. Cumberlandiana (<i>Carocolla</i>). <i>H. Cumberlandiana</i> Binn.
77	appressa Say. <i>H. linguifera</i> Lam. <i>Helicodonta linguifera</i> Fer. var. a Say.	201 98	demissa Binn. dentifera Binn. divesta Gould. <i>H. abjecta</i> Gould. <i>dejecta</i> Gould.
78	arborea Say. <i>Helicella arborea</i> Fer. (<i>H. ni-</i>	201 99	Dorfeuiliana (<i>Polygyra</i>) Lea. <i>H. fugiata</i> Binn. <i>Dorfeuiliana</i> Bld. nec Pfr.
79	Ariadne Pfr. [tide var.) <i>H. Couchiana</i> Lea.	201 100	Edgariana (<i>Carocolla</i>) Lea. <i>H. Edgariana</i> Pfr. <i>spinosa</i> (var.) Binn.
80	aspersa Müll.		Edwardsi Bld.
81	asteriscus Morse.	201 101	egena Say. non <i>H. egena</i> Gould.
82	auriculata (<i>Polygyra</i>) Say. <i>H. auriculata</i> Binn. <i>Helicodonta auriculata</i> Fer. var. minor Fer. ? Conf. H. uvulifera . [Binn.?	201 102 201 103 201 104	electrina Gould. <i>H. nitidosa</i> (var.) Pfr. <i>pura pars</i> Chemn.
83	avara (<i>Polygyra</i>) Say. <i>H. avara</i> De Kay. <i>auriculata</i> Binn. <i>Sayii</i> Wood. <i>Helicodonta avara</i> Fer.	201 105 201 106	elevata Say. <i>Helicodonta Knoxvilliana</i> Fer. <i>H. Tennesseensis</i> (jun.) Lea.
84	barbigera Redf.	201 107	Elliotti Redf. exigua Stimp. <i>H. annulata</i> Case. <i>striatella</i> (jun.) teste Gld.
85	bucculenta Gould. <i>H. thyroides</i> (var. ♂) Pfr.? <i>Helicodonta thyroides</i> (var. ♂) var. minor . [Fer.?		exoleta Binn. <i>H. albolabris</i> ♂ <i>unidentata</i> Pfr. <i>albolabris</i> (var.) D. Chemn. <i>Helicodonta albolabris</i> (var.) <i>H. zuleta</i> Binn. [Fer.
86	bulbina Desh.	201 108	Fabricii (<i>Petasia</i>) Beck. <i>H. Fabricii</i> Möll. <i>Hammonis</i> Ström.? <i>nitida</i> Fabr.? <i>alliaris</i> Forbes.
87	capsella Gould. <i>H. rotula</i> Gould. <i>placentula</i> Shutt.		fallax Say. <i>H. tridentata</i> Binn.
88	cellaria Müll. ? <i>H. glaphyra</i> Say, nec Pfr. <i>Helicella glaphyra</i> Fer.	201 109	fatigiata (<i>Polygyra</i>) Say. * <i>H. fatigiata</i> Binn. <i>Texasiana</i> (var.) B. Chemn. <i>Texasiana</i> ♂ Pfr. <i>Dorfeuiliana</i> Desh.
89	cereolus Müll. <i>Polygyra septemvolva</i> Say. <i>H. septemvolva</i> Binn. <i>Helicodonta septemvolva</i> Fer. <i>H. planorbula</i> Lam.	201 110	

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1858. Pa. No.	Name.	1858. Pa. No.	Name.
	<i>Helicina fastigiata</i> De Kay.	202 127	Helix inornata Say.
201 111	Helix friabilis W. G. Binn.		<i>H. glaphyra</i> Pfr.
	<i>H. lucubrata</i> Pfr. in litt.	202 128	interna Say.
201 112	fuliginosa Binn.		<i>H. pomum-Adami</i> Green
	<i>H. capillacea</i> Pfr.		var. albina .
	<i>Omphalina cuprea</i> Raf.?	202 129	intertexta Binn.
202 113	griseola Pfr.		var. carinata .
	<i>H. splendida</i> An.	202 130	jejuna Say.
	<i>cicercula</i> Fer. MS.		<i>H. Mobiliana</i> Lea.
	<i>Brandgburne pisum</i> Beck.	203 131	kopnodes W. G. Binn.
	<i>H. albozonata</i> Binn.?	203 132	labyrinthica Say.
202 114	gularis Say.		<i>Helicodonta labyrinthica</i> Fer.
	<i>H. bicostata</i> Pfr.	203 133	laevigata Pfr. (excl. <i>H. inc.</i>)
	<i>Helicodonta gularis</i> Fer.		<i>Helicella laevigata</i> Fer. [nat.]
	<i>Helicostyla Rafinesquea</i> Fer.?		<i>H. inornata</i> Rve.
	var. umbilicata .		<i>lucubrata</i> Binn.
202 115	Gundlachi Pfr.		<i>fuliginosa</i> Binn.
	<i>H. pusilla</i> Pfr.		var. major Pfr. (an <i>H. lac.</i>)
	<i>egena</i> Gould, nec Say.	203 134	lasmodon Phill. [gata Rve.]
202 116	Hazardi Bland.		<i>H. macilenta</i> Shutt.
	<i>Polygyra plicata</i> Say.	203 135	leporina Gould.
	<i>H. fatigiata</i> Binn.		<i>H. pustula</i> (var. $\frac{2}{2}$) Pfr.
	<i>Texasiana</i> Pfr.	203 136	ligera Say.
	<i>Dorfeuilliana</i> Desh.		<i>Helicostyla Rafinesquea</i> Fer.
	<i>Troostiana</i> W. G. Binn.		<i>H. Rafinesquea</i> Pfr.
	<i>Helicina plicata</i> De Kay.		<i>Wardiana</i> Lea.
202 117	Hindsi Pfr.	203 137	limatula Ward in Binn.
202 118	hippocrepis Pfr.	203 138	lineata Say.
202 119	hirsuta Say.		<i>Helicella lineata</i> Fer.
	<i>H. fraterna</i> Wood.		<i>Planorbis parallelus</i> Say?
	<i>sinuata</i> y Gmelin.	203 139	major Binn.
	<i>isognomostomus</i> y Gmelin.		<i>H. albolabris</i> Pfr.
	<i>Helicodonta hirsuta</i> Fer.		<i>Helicogena albolabris</i> y Fer.
	<i>Tridopsis hirsuta</i> Woodw.	203 140	microdonta Desh. in Fer.
	<i>Stenostoma convexa</i> Raf.		<i>H. plana</i> Dunker.
	<i>H. porcina</i> (junior?) Say.	203 141	minuscule Binn.
202 120	hispida Linn.		<i>H. minutalis</i> Mor., nec Fer.
202 121	Hopetonensis Shutt.		<i>apex</i> Rve.
	<i>H. tridentata</i> Binn.		<i>Larcelleana</i> Orb. in text.
202 122	hortensis Müll.		<i>Mauriniana</i> Orb. in tab.
	<i>H. nemorulis</i> Stimp.	203 142	minutissima Lea.
	<i>subglobosa</i> Binn.	203 143	Mitchelliana Lea.
202 123	hydrophila Ingalls.		<i>H. clausa</i> Binn.
	<i>H. lucida</i> Drap.		<i>Mitchella</i> Kirt.?
202 124	incrusteda Pory.	203 144	monodon Rack.
	<i>H. saxicola</i> Binn.		<i>H. convexa</i> Chemn.
202 125	indentata Say.		<i>Helicodonta hirsuta</i> a Fer.
	var. umbilicata .		var. 1. H. fraterna Say.
202 126	inflecta Say.		<i>H. monodon</i> ex parte De Kay
	<i>Xolotrema clausa</i> Raf.		<i>convexa</i> Chemn.
	<i>Helicodonta clausa</i> Fer.		var. 2. H. Leali Ward.
	<i>H. clausa</i> Desh.		<i>H. monodon</i> y Pfr.
	<i>porcina</i> (junior?) Say.	203 145	Mooreana W. G. Binn.

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58. No.	Name.	1858. Pa. No.	Name.
146	<i>Helix mordax</i> Shutt.		<i>H. alliaria</i> Forbes.
147	<i>multidentata</i> Binn.		<i>nitida</i> Fab.
148	<i>multilineata</i> Say.	205 165	<i>Helix stenotrema</i> Fer.
	<i>Helicogena multilineata</i> Fer.		<i>H. hirsuta</i> (var. β) Pfr.
	var. <i>albina</i> .	205 166	<i>striatella</i> Anth.
	var. <i>rufa</i> , <i>unicolor</i> .		<i>H. patula</i> (junior?) Pfr.
149	<i>obstricta</i> Say.		<i>rudrata</i> Ad., nec Studer.
	<i>H. palliata</i> (var. α) Say.	205 167	<i>subplana</i> Binn.
	<i>appressa</i> (var.) Desh.	205 168	<i>suppressa</i> Say.
	<i>Helicodonta denotata</i> (var.)		<i>H. gularis</i> (var. β) Pfr.
	<i>Carocolla helicoides</i> Lea. [Fer.	205 169	<i>tenuistriata</i> Binn.
150	<i>Ottonis</i> Pfr.		<i>H. cortex</i> Gould, nec Pfr.
	<i>H. arborea</i> Pfr.	205 170	<i>Texasiana</i> Mor.
151	<i>palliata</i> Say.		<i>H. auriculata</i> Binn.
	<i>Helicodonta denotata</i> Fer.		<i>fatigiata</i> Fer.
	<i>H. denotata</i> Desh. in Lam.		var. <i>H. triodonta</i> Jan?
	<i>notata</i> Desh.		(<i>H. Texasiana</i> Fer.)
	var. <i>Carolinensis</i> .	205 171	<i>tholus</i> W. G. Binn.
	<i>H. Carolinensis</i> Lea.	205 172	<i>thyroides</i> Say.
	<i>palliata</i> (var. γ) De Kay.		<i>H. thyroideus</i> Say.
152	<i>Pennsylvanica</i> Green.		<i>Helicodonta thyroideus</i> Fer.
	<i>H. Mitchelliana</i> Desh. in Fer.,		<i>H. thyroides</i> Chemn.
153	<i>perspectiva</i> Say. [nec Lea.		<i>Anchistoma thyroides</i> Ad.
	<i>Helicella perspectiva</i> Fer.	205 173	<i>tridentata</i> Say.
	<i>H. patula</i> Desh.		<i>Helicodonta tridentata</i> Fer.
154	<i>profunda</i> Say.		<i>Triodopsis lamula</i> Raf.
	<i>Helicella Richardi</i> Fer.	205 174	<i>Troostiana</i> (Polygyra) Lea.
	<i>H. Richardi</i> Lam.		<i>H. Troostiana</i> Pfr.
	<i>Polygyra profundum</i> Ad. Gen.		<i>fatigiata</i> Binn.
	var. <i>unicolor</i> .		var. <i>plicata</i> Binn.
	var. <i>albina</i> .		<i>plicata</i> Shutt., nec Say.
155	<i>pulchella</i> Müll.	205 175	<i>uvulifera</i> Shutt.
	<i>H. minuta</i> Say.		<i>H. florulifera</i> Rve.
	var. <i>costata</i> , <i>H. costata</i> Müll.		<i>auriculata minor</i> Fer.?
156	<i>pustula</i> (<i>Helicodonta</i>) Fer.	205 176	<i>varians</i> Menke.
	<i>H. pustula</i> Pfr.		<i>H. carnicolor</i> Pfr.
	<i>fatigiata</i> Binn.		<i>pisana</i> Mart. et Chemn.
	<i>leporina</i> W. G. Binn.		<i>submeris</i> Migh.
157	<i>pustuloides</i> Bld.		<i>rhodocheila</i> Binn.
	<i>H. pustula</i> Binn., non Fer.		<i>polychroa</i> Binn.
158	<i>Roëmeri</i> Pfr.		<i>Helicella carnicolor</i> Fer.
	<i>H. dentifera</i> Pfr.		<i>Hemitrochus mastomus</i> Sowb.
159	<i>Rugeli</i> Shutt.		var. β . <i>H. apicina</i> Menke.
160	<i>Sayii</i> Binn.	206 177	<i>ventrosula</i> Pfr.
	<i>H. diodonta</i> Say.		var. <i>depressa</i> .
161	<i>sculptilis</i> Bld.	206 178	<i>volvaxis</i> Pfr.
162	<i>solitaria</i> Say.		<i>Polygyra septemvolva</i> Beck?
	var. <i>minor</i> .	206 179	<i>vortex</i> Pfr.
163	<i>spinosa</i> (<i>Carocolla</i>) Lea.		<i>H. selenina</i> Gould.
	<i>H. spinosa</i> Binn. (excl. <i>H.</i>	206 180	<i>vultuosa</i> Gould.
	<i>Edgariana</i> .) [Mösch.		
164	<i>Steenstrupii</i> (<i>Helicella</i>)		SPECIES EXCLUSÆ.
	<i>Helicella</i> (n. s.) Steens.	206	<i>Helix arbustorum</i> Linn.

—continued.

Nam.

Bulimus serperastrus subula Pfr.

B. procerus Adams
actonolites Or.
hertensis A. A.

Achatina subula Pfr.

zebra (Fuccinus).

Zebra Mulleri Mart.

Bul'ia zebra Guér.

B. undatus Brug.

Cochlostyla undata Say.

Achatina flammea Say.

zebra Linn.

Agatina fusca Raf.

Orthalsiscus undatus Say.

var. γ . **B. princeps**.

Cochlostyla princeps Say.

Orthalsiscus princeps Say.

SPECIES EXCELSA

Bulimus exiguus Binn. = **Car-**
chium.

fasciatus Binn. = **Achatina**

Gossii Pfr. vide **Macroce-**

mus pontificus.

Kienneri Pfr. vide **Macroce-**

mus pontificus.

lubricus Adams = **Achatina**

obscurus Dr. vide **Pupa** plac

Sag.

striatus Brug. = **Glandina**

truncata.

verruum Brug. = **Achatina**

ciata.

zebra Orb. = **Ach. fasciata**

207 197 **Macroceramus pontificus**

landreana Guér.

Pupumicarinata Binn. [3]

207 198 **Achatina fasciata** (L.)

Bul'ia fasciata Mart. et C.

Bulimus veridicus Binn.

[203]

Cochlitoma veridicum Fér.

A. veridicum Lam.

fasciata Swain.

fasciata Valen.

Bulimus fasciatus Binn.

Achatina variegata Raf.

junior *A. muricata* Rye.

var. β . **A. pallida** Say.

Cochlitoma veridicum Fér.

var. γ . **A. crenata** Say.

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1858.		Name.	1858.		Name.
Pa.	No.		Pa.	No.	
		<i>A. anais</i> Less.	208	207	Pupa armifera (<i>Carychium</i> ?)
		<i>fasciata</i> (var.) Rve.			<i>P. armifera</i> Gould. [Say.
		<i>Bulimus zebra</i> Orb.			<i>armifera</i> Pot. et Mich.
207	199	var. <i>ζ. A. solida</i> Say.	208	208	<i>rupicola</i> Pfr.
		Achatina lubrica (<i>Helix</i>) Müll.			badia Adams.
		<i>A. lubrica</i> Pfr.			<i>P. murcorum</i> Linn.
		<i>Bulimus lubricus</i> Adams.	208	209	contracta (<i>Carychium</i>) Say.
		<i>lubricoides</i> Stimps.			<i>P. contracta</i> Gould.
207	200	picta Rve.			<i>deltostoma</i> Charp. in Chem.
		<i>Bulimus fasciatus</i> (var.) Binn.			<i>corticaria</i> Pfr.
		SPECIES EXCLUSÆ.			<i>Vertigo contracta</i> Ad. Gen.
207		<i>Achatina bullata</i> Pfr. = Glandina	208	210	corticaria Say.
207		<i>flammigera</i> Say = Bulimus ze-			<i>Odostomia corticaria</i> Say.
		bra.			<i>Carychium corticaria</i> Fer.
207		<i>gracillima</i> Pfr. = Bulimus gra-	208	211	decora Gould.
		cillimus.			<i>Vertigo decora</i> Ad. Gen.
207		<i>pellucida</i> Pfr. = Blauneria.	208	212	Hoppii Möll.
207		<i>rosea</i> Desh. = Gland. truncata.			<i>P. Steenbuchii</i> Beck.
207		<i>striata</i> De Kay = Gl. truncata?	208	213	incana Binn.
207		<i>subula</i> Pfr. = Bulimus.			<i>P. detrita</i> Shutt.
207		<i>Texasiana</i> Pfr. = Glandina.			<i>maritima</i> γ Pfr., Gould.
207		<i>truncata</i> Pfr. = Glandina.	208	214	var. fasciata.
207		<i>vexillum</i> De Kay, vide A. vir-			modica Gould.
		ginea.	208	215	pentodon (<i>Vertigo</i>) Say.
207		<i>Vanuxemensis</i> Pfr. = Glandina.			<i>P. pentodon</i> Gould.
207		<i>virginia</i> Linn. (<i>A. vexillum</i> De			<i>Tappaniana</i> Adams.
		Kay, nec Brug.)			<i>curcidens</i> Gould.
207	201	Glandina bullata Gould.	208	216	placida Say.
		<i>Achatina bullata</i> Pfr.			<i>Bulimus marginatus</i> Say.
207	202	<i>Oleacina bullata</i> Gr. et Pfr.			<i>obscurus</i> Müll.
		corneola W. G. Binn.	208	217	rupicola (<i>Carychium</i>) Say.
		<i>G. truncata</i> (var.?) Binn.			<i>P. rupicola</i> Gould.
207	203	parallela W. G. Binn.			<i>procera</i> Gould.
		<i>G. truncata</i> (var.) Binn.			<i>carinata</i> Gould.
207	204	Texasiana (<i>Achatina</i>) Pfr.			<i>Vertigo rupicola</i> Binn.
207	205	truncata (<i>Bulla</i>) Gmelin.			<i>minuta</i> Ad. Gen.?
		<i>Buccinum striatum</i> Mart. et	208	218	<i>P. gibbosa</i> Chemn.?
		Chemn.			<i>minuta</i> Pfr.
		<i>Bulimus striatus</i> Brug.			variolosa Gould.
		<i>Cochlicopa rosea</i> Fer.	208		SPECIES EXCLUSÆ.
		<i>Achatina rosea</i> Desh.			Pupa albilabris Ad. = Eul. mar-
		<i>striata</i> Desh.	208		ginatus.
		<i>truncata</i> Orb.	208		<i>costulata</i> Migh. = Bul. harpa.
		<i>G. truncata</i> Say.	208		<i>exigua</i> Say = Carychium.
		<i>Oleacina truncata</i> Gr. et Pfr.	208		<i>fallax</i> Say = Bul. marginatus.
		<i>Polyphemus glans</i> Say.	208		<i>Gouldii</i> Binn. = Vertigo.
		<i>Planorbis glans</i> De Kay.	208		<i>milium</i> Gould = Vertigo.
208	206	Vanuxemensis Lea.	208		<i>modesta</i> Say = Vertigo ovata.
		<i>Achatina Vanuxemensis</i> Pfr.	208		<i>ovata</i> Gould = Vertigo.
		<i>Oleacina Vanuxemensis</i> Gr. et	208		<i>ovulum</i> Pfr. = Vertigo ovata.
		Pfr.	208		<i>Parraiana</i> Orb. = Eul. margi-
					natus.

[Proceedings of the Acad. of Nat. Sci. of Philad., n. s.—continued.]

1858. Pa. No.	Name.	1858. Pa. No.	Name.
208	<i>Pupa simplex</i> Gould = Vertigo .	209 223	Cylindrella Goldfussi Menke.
208	<i>unicarinata</i> Binn. = Macroceramus pontificus .	209 224	<i>jejuna</i> Gould.
		209 225	Poeyana Orb.
208 219	Vertigo Gouldii Binn.		<i>C. lactaria</i> Binn.
	<i>Pupa Gouldii</i> Binn.	209 226	Rœmeri Pfr.
209 220	milium Gould.		SPECIES EXCUSA.
	<i>Pupa milium</i> Gould.	209	<i>Cylindrella pontifica</i> Gould = Macroceramus .
209 221	ovata Say.		Familia Auriculacea .
	<i>Pupa ovata</i> Gould.		Sub-familia Melampea .
	<i>modesta</i> Say.	209 227	Melampus bidentatus Say.
209 222	simplex Gould.		<i>M. biplicatus</i> Pfr.
	<i>Pupa simplex</i> Gould.		<i>corneus</i> Stimp.
	SPECIES EXCUSA.		<i>Jaumei</i> Pfr.
209	<i>Vertigo contracta</i> Ad. Gen. = Pupa .		<i>Auricula biplicata</i> Desh.
209	<i>decora</i> Ad. Gen. = Pupa .		<i>cornea</i> Desh.
209	<i>minuta</i> Ad. Gen., vide Pupa rupitodon Say = Pupa . [picola.		<i>bidentata</i> Gould.
209	<i>rupicola</i> Binn. = Pupa .		non <i>Auricula bidens</i> (Say) Pot.
			et Mich.
	E HELICES EXCUSA.		<i>Auricula Jaumei</i> Mittr.
209	Apلودon Raf.		var. <i>lineatus</i> Say.
209	nodosum Raf.		<i>Melampus bidentatus</i> ♂ Pfr.
209	Chimotrema Raf.	209 228	<i>Auricula bidentata</i> (var. a) De
209	planiuscula Raf.		cingulatus Pfr. [Kay.
209	Hemiloma Raf.		<i>Auricula cingulata</i> Pfr.
209	avara Raf.		<i>oliva</i> Orb.
209	Mesodon Raf.	209 229	coffea (Voluta) Linn.
209	maculatum Raf.		<i>Bulla coffea</i> Linn.
209	Mesomphix Raf.		<i>Voluta minuta</i> Gmel. [tini?
209	Odomphium Raf.		<i>Auricula midæ parva</i> &c. Mar.
209	<i>Odostomia</i> Say = Pupa .		<i>Ellobium Barbadosense</i> Boelten?
209	<i>corticaria</i> Say = Pupa .		<i>Bulinus coniformis</i> Brug.
209	Odotropis Raf.		<i>M. coniformis</i> Montf.
209	Omphalina Raf.		<i>fusca</i> Mörch.
209	<i>cuprea</i> Raf., vide Helix .		<i>coffea</i> Mörch.
209	fuliginosa .		<i>Melampa minuta</i> Pfr.
209	Partula Otaheitana Fer.		<i>Tornatelle coniforme</i> Blain.
209	Stenostoma Raf.		<i>Auricula coniformis</i> Fer.
209	<i>Stenotrema</i> Raf.		<i>ovula</i> Orb.
209	<i>convexa</i> Raf.		<i>Conovulus coniformis</i> Lam.
209	Toxostoma Raf.		<i>M. coffeus</i> Beck.
209	globularis Raf.		<i>coffea</i> Gray.
209	Toxotrema Raf.		<i>obliquus</i> Say?
209	globularis Raf.	210 230	Floridianus (Auricula) Shutt.
209	complanata Raf.		<i>M. Floridianus</i> Pfr.
209	Triodopsis Raf.	210 231	obliquus Say.
209	Trophodon Raf.		<i>Auricula obliqua</i> De Kay.
209	Xolotrema Raf.	210 232	pusillus (Voluta) Gmel.
209	lunula Raf.		<i>Auricula midæ parva</i> &c. Mart.
209	triodopsis Raf.		et Chemn.

[Proceedings of the Acad. of Nat. Sci. of Philad., n. s.—continued.]

1858. Pa. No.	Name.	1858. Pa. No.	Name.
	<i>Voluta triplicata</i> Don.		<i>Achatina pellucida</i> Gould.
	<i>Bulimus oculus</i> Brug.		<i>Tornatellina Cubensis</i> Pfr.
	<i>Melampa ovulum</i> Schw.		<i>Odostomia</i> ? <i>Cubensis</i> Poey.
	<i>Conorula ovula</i> Fer.	210 235	Leuconia? <i>Sayii</i> (<i>Auricula</i>)
	<i>Auricula nitens</i> Lam.		<i>L.</i> ? <i>Sayii</i> Pfr. [Küst.
	<i>pusilla</i> Desh.		An <i>Alexia myosotis</i> ?
	<i>leucodonta</i> Nuttall.	210 236	Carychium exiguum (<i>Pupa</i> ?)
	<i>Conovulus nitens</i> Voigt.		<i>C. exiguum</i> Pfr. [Say.
	<i>pusillus</i> Anton.		<i>exile</i> H. C. Lea.
	<i>M. ovulum</i> Lowe.		<i>existelium</i> Bourg.?
	<i>nitens</i> Shuttl.		<i>euphemum</i> Bourg.?
	<i>Pythia ovulum</i> Beck.		<i>Bulimus exiguus</i> Binn.
	<i>triplicata</i> Beck.		<i>Pupa exigua</i> Gould.
	<i>Tralia pusilla</i> Ad. Gen.		
	<i>ovulum</i> Möreh.		
	SPECIES EXCLUSÆ.		SPECIES EXCLUSÆ.
210	<i>Melampus borealis</i> Conr. = <i>Alexia</i>	211	<i>Carichium?</i> <i>armigera</i> Say = <i>Pupa</i> .
210	<i>myosotis</i> .	211	<i>corticaria</i> Fer. = <i>Pupa</i> .
	<i>denticulatus</i> Stimp. = <i>Alexia</i>	211	<i>contracta</i> Say = <i>Pupa</i> .
	<i>myosotis</i> .	211	<i>rupicola</i> Say = <i>Pupa</i> .
	Sub-familia <i>Auriculea</i> .		Familia <i>Aciculacea</i> .
	SPECIES EXCLUSÆ.	211 237	Truncatella bilabiata Pfr.
210	<i>Auricula bidentata</i> Gould = <i>Mel-</i>	211 238	Caribæensis Sowb.
210	<i>lampus</i> .		<i>T. variabilis</i> Pfr.
	<i>biplicata</i> Desh. = <i>Melampus</i>		<i>Gouldii</i> C. B. Ads.
	<i>bidentatus</i> .		<i>Geurinii</i> Parr.
210	<i>cingulata</i> Pfr. = <i>Melampus</i> .	211 239	<i>succinea</i> C. B. Ads.
210	<i>coniformis</i> Fer. = <i>Mel. coffea</i> .	211 240	pulchella Pfr.
210	<i>cornea</i> Desh. = <i>Melampus bi-</i>		subcylindrica Gray.
	<i>dentatus</i> .		<i>Helix subcylindrica</i> Pult.
210	<i>denticulata</i> Gould = <i>Alexia my-</i>		<i>T. truncatella</i> Lowe?
	<i>osotis</i> .		<i>Caribæensis</i> Pfr.
210	<i>Floridianus</i> Shut. = <i>Melampus</i> .		Familia <i>Cyclostomacea</i> .
210	<i>Jannei</i> Mittr. = <i>Melampus bi-</i>		Sub familia <i>Cistulea</i> .
	<i>dentatus</i> .	211 241	Chondropoma dentatum (<i>Cy-</i>
210	<i>nitens</i> Lam. = <i>Mel. pusillus</i> .		<i>clostoma</i>) Say.
210	<i>obliqua</i> De Kay = <i>Melampus</i> .		<i>Cyclostoma dentatum</i> De Kay.
210	<i>oliva</i> Orb. = <i>Mel. cingulatus</i> .		<i>lineolatum</i> Anton.
210	<i>pusilla</i> Desh. = <i>Melampus</i> .		<i>Auberianum</i> Orb.?
210	<i>Sayii</i> Küster = <i>Leuconia</i> .		<i>lunulatum</i> Möreh.
210	<i>stenostoma</i> Küster = <i>Melampus</i>		<i>crenulum</i> Pfr.
	<i>cingulatus</i> .		<i>Chondropoma crenulum</i> Pfr.
210	233 <i>Alexia myosotis</i> (<i>Auricula</i>)		<i>dentatum</i> Pfr.
	<i>A. myosotis</i> Pfr. [Drap.		CYCLOSTOMACEA EXCLUSÆ.
	<i>Auricula denticulata</i> Gould.	211	<i>Cyclostoma Auberianum</i> Orb., vide
	<i>Melampus denticulatus</i> Stimp.		Chondropoma dentatum .
	<i>borealis</i> Conr.	211	<i>Cincinnatiensis</i> Lea = <i>Amnicola</i> .
210	234 <i>Blauneria pellucida</i> Pfr.	211	<i>crenulum</i> Pfr. = <i>Chondropo-</i>
	<i>Achatina</i> ? <i>pellucida</i> Pfr.		<i>ma dentatum</i> .

[Proceedings of the Acad. of Nat. Sci. of Philad., n. s.—continued.]

1858. Pa. No.	Name.	1858. Pa. No.	Name.
211	<i>Cyclostoma dentatum</i> Say = Chondropoma .	211 247	Helicina tropica Pfr.
211	<i>lapidaria</i> Say = Amnicola .		<i>H. ambeiana</i> Sowb., nec De
211	<i>lineolatum</i> Anton = Chondropoma dentatum .		<i>orbiculata</i> Binn., nec Say
211	<i>lunulatum</i> Mörcb. = Chondropoma dentatum .	211	SPECIES EXCLUSÆ.
211	<i>marginalis</i> Kirt. = Bul. marginatus .	211	<i>Helicina fastigiata</i> DeKay = Helic
211	<i>marginata</i> Say = Bulimus .	211	<i>fatigiata</i> Say.
211	<i>tricarinata</i> Say = Valvata .	211	<i>plicata</i> De Kay = Helix Ha
		211	<i>ardi</i> Bland.
		211	<i>Oligyra</i> Say = Helicina .
		211	<i>orbiculata</i> Say = Helicina .
	Familia Helicinacea .		IN ERRATA.
211 242	Helicina chrysocheila Binn.	41	Bulimus sufflatus Gould.
211 243	Hanleyana Pfr.		<i>B. vesiculis</i> Gould.
211 244	occulta Say.	48 ^a	Truncatella gracilentia Gould
211 245	orbiculata Say.	84 ^a	Helix Berlanderiana Mor.
	<i>Oligyra orbiculata</i> Say.		<i>H. pachyloma</i> Mke.
	<i>H. vestita</i> (junior) Guild.		<i>virginalis</i> Pfr. ?
	<i>castanea</i> (junior) Guild.	86 ^a	caduca Pfr.
211 246	subglobulosa Poey.	201	<i>dissidens</i> Desh. = concava .
1859.	Lea. —Descriptions of eight new species of Unionidæ from Georgia, Mississippi, and Texas: by ISAAC LEA.		
April.			
Page.	Name.		Locality.
112	Unio spissus Lea.		Satilla river, Georgia.
112	corvus Lea.		Buckhead creek, Georgia.
112	Buckensis Lea.		Buckhead creek, Georgia.
112	aureus Lea.		Texas.
112	curtus Lea.		Tombigbee river, Mississippi.
112	permiscens Lea.		Tombigbee river, Mississippi.
113	Margaritana elliptica Lea.		Tombigbee river, Mississippi.
113	Anodonta Texasensis Lea.		Texas.
May.	Lea. —Descriptions of twenty-one new species of Exotic Unionidæ: by ISAAC LEA.		
151			
153	Unio persulcatus Lea.		Mexico.
	Lea. —Descriptions of two new species of Uniones from Georgia: by ISAAC LEA.		
154	Unio fibuloides Lea.		Connasauga river, Georgia.
154	compactus Lea.		Etowah river, Georgia.
	Lea. —Descriptions of seven new species of Uniones from South Carolina, Florida, Alabama, and Texas: by ISAAC LEA.		
154	Unio cacao Lea.		Chacktahachie river, W. Fla.
154	hepaticus Lea.		Salkakatche river, S. C.
154	viridiradiatus Lea.		Big Uchee, Ala.; Columbus, Ga.
154	macrodon Lea.		Rutersville, Texas.

[Proceedings of the Acad. of Nat. Sci. of Philad., n. s.—continued.]

1859. Page.	Name.	Locality.
155	Unio Houstonensis Lea.	Houston, Texas.
155	Rutersvillensis Lea.	Rutersville, Texas.
155	Forsheyi Lea.	Fayette County, Texas.
June.	Lea. —Descriptions of twelve new species of Uniones from Georgia: by ISAAC LEA.	
170	Unio Baldwinensis Lea.	Carter's creek, Georgia.
170	viridans Lea.	Columbus, Georgia.
170	Hallenbeckii Lea.	Columbus, Georgia.
170	salebrosus Lea.	Columbus, Georgia, &c.
171	modicellus Lea.	Connasauga and Chattanooga
171	latus Lea.	Savannah river. [rivers, Ga.
171	verutus Lea.	Columbus, Ga. [bama rivers.
171	Johannis Lea.	Connasauga, Etowah, and Ala-
171	Racensis Lea.	Columbus and Rae's cr., Ga.
171	inusitatus Lea.	Swift creek, Macon, Ga.
171	Jonesii Lea.	Uharlee creek, Ga.
172	quadratus Lea.	Carter's & Factory creeks, Ga.
July.	Observations on the Geographical Distribution and Anatomy of Unio and—	
177	Anodonta Lewisii.	
177	<i>unadilla</i> De Kay = edentula Say.	
177	edentula.	
188	W. G. Binney. —Notes on American Land Shells, No. 5: by W. G. BINNEY. ¹	
Pa. No.	Name.	Pa. No. Name.
188 1	Arion foliolatus non <i>foliatus</i> .	188 <i>Philomycus dele nebulosus.</i>
188 12	Helix Californiensis Lea.	188 <i>adde oxyrus</i> Raf.
188 13 ^a	<i>cultellata</i> Thomson.	188 <i>quadrilus</i> Raf.
188 33 ^a	<i>strigosa</i> Gould.	188 <i>dele Oxyrus.</i>
188 33 ^b	Townsendiana Lea.	188 <i>quadrilus.</i>
188 33 ^c	<i>tudiculata</i> Binn.	
188 33 ^d	Vancouverensis Lea.	188 58 <i>adde Vitrina Americana</i> Chemn.
	<i>H. concava</i> Binn.	188 68 <i>Succinea Texasiana</i> Pfr.
	<i>rellicata</i> Forbes.	188 69 <i>obliqua</i> Pfr.
188 41	Bulimus sufflatus Gould. in litt.	188 82 <i>Helix auriculata</i> De Kay.
	<i>B. vesicalis</i> Gould.	188 83 <i>Stenotrema avara</i> Hart.
188 48 ^a	(In addenda) is syn. of 48.	188 84 ^a Helix Berlanderiana Mcr.
188 49 ^a	Tebennophorus bilineatus	<i>H. pachyloma</i> Mke.
188 55 ^a	Limax lineatus De Kay. [Cart.	<i>virginalis</i> Pfr.
	LIMAX—SPECIES EXCLUSÆ.	188 86 <i>bulbina</i> Pfr.
188	<i>Limax gracilis</i> Grat.	188 86 ^a <i>caduca</i> Pfr.
188	<i>Eumelus lividus</i> Grat.	188 97 <i>dentifera</i> Pfr.
188	<i>nebulosus</i> Grat.	188 104 <i>Tennesseeensis</i> Tros.
188	<i>Philomycus dele lividus.</i>	188 130 <i>Mobiliana</i> Tros.
		188 133 <i>laevigata</i> Desh.

¹ The contributions to this department of American Conchology by this author have also been published in pamphlet form. Page 1 of the pamphlet corresponds to 1837, p. 12. Page 3 = 1837, p. 183. Page 15 = 1838, p. 114. Page 19 = 1838, p. 197. Page 35 = 1839, p. 188.

Examinations of the following specimens of *M. varians*...

Specimen	Notes
<i>M. varians</i> (No. 1000)	...
<i>M. varians</i> (No. 1001)	...
<i>M. varians</i> (No. 1002)	...
<i>M. varians</i> (No. 1003)	...
<i>M. varians</i> (No. 1004)	...
<i>M. varians</i> (No. 1005)	...
<i>M. varians</i> (No. 1006)	...
<i>M. varians</i> (No. 1007)	...
<i>M. varians</i> (No. 1008)	...
<i>M. varians</i> (No. 1009)	...
<i>M. varians</i> (No. 1010)	...
<i>M. varians</i> (No. 1011)	...
<i>M. varians</i> (No. 1012)	...
<i>M. varians</i> (No. 1013)	...
<i>M. varians</i> (No. 1014)	...
<i>M. varians</i> (No. 1015)	...
<i>M. varians</i> (No. 1016)	...
<i>M. varians</i> (No. 1017)	...
<i>M. varians</i> (No. 1018)	...
<i>M. varians</i> (No. 1019)	...
<i>M. varians</i> (No. 1020)	...

M. varians (No. 1000) - Not on

M. varians (No. 1001) - Not on

M. varians (No. 1002) - Not on

M. varians (No. 1003) - Not on

M. varians (No. 1004) - Not on

<i>M. varians</i> (No. 1005)	- <i>Oxyechinus</i>
<i>M. varians</i> (No. 1006)	- <i>Tylosinella</i>
<i>M. varians</i> (No. 1007)	- <i>Tylosinella</i>
<i>M. varians</i> (No. 1008)	- <i>Tylosinella</i>

M. varians (No. 1009) - Description of the specimen...

M. varians (No. 1010) - Description of the specimen...

M. varians (No. 1011) - Description of the specimen...

M. varians (No. 1012) - Description of the specimen...

M. varians (No. 1013) - Description of the specimen...

M. varians (No. 1014) - Description of the specimen...

M. varians (No. 1015) - Description of the specimen...

M. varians (No. 1016) - Description of the specimen...

M. varians (No. 1017) - Description of the specimen...

M. varians (No. 1018) - Description of the specimen...

M. varians (No. 1019) - Description of the specimen...

M. varians (No. 1020) - Description of the specimen...

M. varians (No. 1021) - Description of the specimen...

M. varians (No. 1022) - Description of the specimen...

M. varians (No. 1023) - Description of the specimen...

M. varians (No. 1024) - Description of the specimen...

M. varians (No. 1025) - Description of the specimen...

M. varians (No. 1026) - Description of the specimen...

M. varians (No. 1027) - Description of the specimen...

M. varians (No. 1028) - Description of the specimen...

M. varians (No. 1029) - Description of the specimen...

M. varians (No. 1030) - Description of the specimen...

Rafinesque.—Précis des Découvertes Somnologiques ou Zoologiques et Botaniques de C. S. RAFINESQUE. Palerme, 1814.

[No localities are given. The species are probably foreign.—W. G. B.]

CLASS **MALACOSIA.** Les Mollusques.

Page.		Page.	
28	<i>Octopus frayedus Raf.</i>	29	<i>Loligo todurus Raf.</i>
28	<i>didynamus Raf.</i>	29	<i>Ozorna Aldrovandi Raf.</i>
28	<i>heteropus Raf.</i>	29	<i>Dictyethis fusca Raf.</i>
28	<i>ruber Raf.</i>	29	<i>Hyppterus Raf. (n. g.)</i>
28	<i>tetradynamus Raf.</i>	29	<i>appendiculatus Raf.</i>
28	<i>moschatus Raf.</i>	29	<i>erythrogaster Raf.</i>
29	<i>albus Raf.</i>	29	<i>Stephylla Raf. (n. g.)</i>
29	<i>niger Raf.</i>	30	<i>pallida Raf.</i>
29	<i>maculatus Raf.</i>	30	<i>lutescens Raf.</i>
29	<i>Ozoena moschata Raf.</i>	30	<i>fusca Raf.</i>
	<i>Octopus moschatus Lam.</i>	30	<i>Armina Raf. (n. g.)</i>
29	<i>Ocythoe Raf. (n. g.)</i>	30	<i>maculata Raf.</i>
29	<i>tuberculata Raf.</i>	30	<i>tigrina Raf.</i>
29	<i>Sepia mucronata Raf.</i>	30	<i>Sarcopterus Raf. (n. g.)</i>
29	<i>Loligo lanceolata Raf.</i>	30	<i>ruber Raf.</i>
29	<i>odagadium Raf.</i>		

Conrad.—Descriptions of new Fossil and Recent Shells of the United States: by T. A. CONRAD. (From Journ. Acad. Nat. Sci. of Philad., n. s., vol. i, part iii, p. 207. Aug. 1849.)

Page.	Name.	Locality.
208	<i>Siliqua Floridana</i> Conr.	Egmont Key, Tampa Bay.
	<i>Solecurtus fragilis</i> (var.) Conr.	
208	<i>Lyonsia Floridana</i> Conr.	
	<i>Osteodesma hyalina</i> Conr.?	
208	<i>Cryptomya</i> Conr. (n. g.)	
208	<i>Sphausta Californica</i> Conr. = <i>Cryptomya Californica</i> .	
208	<i>Donax protracta</i> Conr. (p. 280, pl. xxxix, fig. 8).	St. Joseph's Bay, Fla.
209	<i>Venus intapurpurea</i> Conr. (p. 280, pl. xxxix, fig. 9).	Egmont Key, Tampa Bay.
209	<i>Pecten fuscopurpureus</i> Conr. (p. 280, pl. xxxix, fig. 10).	Mullet Key, Tampa Bay.

Conrad.—Notes on Shells, with Descriptions of new Genera and Species: by T. A. CONRAD. (From same as last, p. 210.)

Page.		Page.	
213	Petricola Californica <i>Conr.</i> <i>Saxicava Californica</i> <i>Conr.</i> <i>P. arcuata</i> <i>Desh.</i>	213	Siliqua lucida <i>Conr.</i> <i>Solecortus lucidus</i> <i>Conr.</i> <i>radiatus</i> Gould, non Linn.
213	carditoides <i>Conr.</i> <i>Saxicava carditoides</i> <i>Conr.</i> <i>P. cylindracea</i> <i>Desh.</i>	213	Trigonella <i>Conr.</i> (n. g.)
213	Siliqua Nuttallii <i>Conr.</i> <i>Solecortus Nuttallii</i> <i>Conr.</i> <i>maximus</i> Gould, non Wood. <i>Solen splendens</i> <i>Chenu.</i>	213	crassatelloides <i>Conr.</i>
		214	Sanguinolaria Nuttallii <i>Conr.</i> <i>Psammobia decora</i> <i>Hinds.</i>
		214	Margaritaria <i>Conr.</i> (n. g.,
		214	Parapholas <i>Conr.</i> (n. g.) [fos.]
		214	Californica <i>Conr.</i>
		214	Janelli <i>Desh.</i>

Conrad.—Descriptions of new Fresh-water and Marine Shells: by T. A. CONRAD. (From same as last, part iv, p. 275. Jan. 1850.)

Page.	Plate.	Fig.	Name.	Locality.
275	xxxvii	1	Unio securiformis <i>Conr.</i>	Flint river, Ga.
275	xxxvii	2	stagnalis <i>Conr.</i>	Ogeechee riv., Ga.
275	xxxvii	3, 4	Ogeecheensis <i>Conr.</i>	Ogeechee riv., Ga.
275	xxxvii	5	rosaceus <i>Conr.</i>	Savannah river.
276	xxxvii	6	oratus <i>Conr.</i>	Flint river, Ga.
276	xxxvii	7	contrarius <i>Conr.</i>	Ogeechee riv., Ga.
276	xxxvii	8	nucleopsis <i>Conr.</i>	Etowah river, Ga.
276	xxxvii	9	limatulus <i>Conr.</i>	Savannah river.
276	xxxviii	2	perplicatus <i>Conr.</i> <i>U. atrocostatus</i> <i>Lea.</i>	Jackson, La.
277	xxxviii	4, 8	nodiferus <i>Conr.</i>	Jackson, La.
277	xxxviii	7	plectophorus <i>Conr.</i> <i>U. aratus.</i>	Flint river, Ga.
277	xxxviii	11	Mississippiensis <i>Conr.</i>	Lower Mississippi.
277	xxxviii	1	Melania subilirata <i>Conr.</i>	Savannah river.
278	xxxviii	3	cœlatura <i>Conr.</i>	Savannah river.
278	xxxviii	5	symmetrica <i>Conr.</i>	Savannah river.
278	xxxviii	6	perangulata <i>Conr.</i>	Savannah river.
278	xxxviii	9	nebulosa <i>Conr.</i>	Savannah river.
278	xxxviii	10	percarinata <i>Conr.</i>	Savannah river.

[Here follow descriptions of certain shells from Lower California and Peru. The particular localities being given, they are all quoted among the foreign species.]

Conrad.—Descriptions of new Species of Unio: by T. A. CONRAD. (From same as last, vol. ii, part iv. February, 1854.)

Page.	Plate.	Fig.	Name.	Locality.
295	xxvi	1	Unio Aberti <i>Conr.</i> <i>U. Lamarckianus</i> Lea.	Chambers' ford, Verdigris river, Ark.
296	xxvi	5	hebetatus <i>Conr.</i>	Missouri.
296			rivularis <i>Conr.</i> (Unioimerus), <i>U. declivis</i> <i>Conr.</i> , non Say.	
296	xxvi	7	porrectus <i>Conr.</i> <i>U. parallelus</i> <i>Conr.</i> (preoc.)	Jackson, Miss.
297	xxvi	8	arquatus <i>Conr.</i>	Wabash river.
297	xxvii	1	subcroceus <i>Conr.</i>	Trib. of Canadian riv., Ark.
297	xxvii	2, 3	nobilis <i>Conr.</i>	Bayou Teche.
297	xxvii	4	pectitus <i>Conr.</i>	Wabash river.
298	xxvii	5	altus <i>Conr.</i>	Tennessee?
298	xxvii	6	velatus <i>Conr.</i>	River St. Foix.

Conrad.—Synopsis of the Genera Parapholas and Penitella: by T. A. CONRAD. (From same as last, p. 335. No descriptions.)

Page.		Page.	
335	Parapholas Californica <i>Conr.</i> <i>Pholas Californica</i> <i>Conr.</i> <i>Janelli</i> <i>Desh.</i>	335	Penitella tubijera <i>Val.</i>
		335	xylophaga <i>Val.</i>
335	Penitella Conradi <i>Val.</i> <i>Pholas penita</i> <i>Conr.</i> <i>concammerata</i> <i>Desh.</i>	335	melanura. <i>Pholas melanura</i> <i>Sowb.</i> <i>Penitella Wilsoni</i> <i>Conr.</i> [not <i>Parapholas bisulcata</i> .]

Adams.—Description of a Species of Haliotis supposed to be new: by C. B. ADAMS. (From Silliman's Amer. Journ. Sci., n. s., vol. vi, p. 138. July, 1848.)

Page.	
138	Haliotis ponderosa <i>Adams.</i>

Anonymous.—Conchology. (From the Naturalist, edited by D. J. Browne, vol. ii. Boston, 1832. With a plate.)

Page.	Date.	Title of article.
65	March, 1832.	
	March, 1832.	Explanation of the Parts of Shells.

Page.	Date.	Title of article.
101-104	April, 1832.	On the Constituent Parts of Shells.
137-146	May, 1832.	On the Formation of Shells.
165-175	June, 1832.	On the Colors of Shells.
202-207	July, 1832.	On the Fermentation of the Umbilicus, Protuberances, &c.
235-238	Aug. 1832.	On the Production of Pearls.
271-275	Sept. 1832.	On the Habitation of Testaceous Animals.
303-306	Oct. 1832.	On the Methods of Fishing and Collecting Shells.
341-348	Nov. 1832.	On the Methods of Polishing Shells.

Cooper.—List of Shells collected by Mr. Schoolcraft in the Western and Northwestern Territory: by WILLIAM COOPER. (In Appendix to Narrative of an Expedition through the Upper Missouri to Itasca Lake, &c., under the direction of Henry B. Schoolcraft, p. 153. New York, 1834.)

Page.	Name.	Locality.
153	<i>Helix albolabris</i> Say.	Lake Michigan.
153	<i>alternata</i> Say.	Wabash river.
153	<i>Planorbis campanulatus</i> Say.	Itasca Lake.
153	<i>trivolvus</i> Say.	Lake Michigan.
153	<i>Lymneus umbrosus</i> Say.	Lake Winnipeg, &c.
154	<i>reflexus</i> Say.	Rainy Lake, &c.
154	<i>stagnalis</i> .	Lake a la Crosse.
154	<i>Paludina ponderosa</i> Say.	Wisconsin river.
154	<i>vivipara</i> Say.	
154	<i>Melania Virginica</i> Say.	Lake Michigan.
154	<i>Anodonta cataracta</i> Say.	Chicago.
154	<i>corpulenta</i> Cooper (description).	Upper Missouri river.
154	<i>Alasmodonta complanata</i> Barnes.	Shell Lake, &c.
154	<i>rugosa</i> Barnes.	St. Croix, &c.
155	<i>marginata</i> Say.	Lake Vaseux, &c.
155	<i>edentula</i> Say?	Lake Vaseux, &c.
155	<i>areolata</i> Sw.?	Lake Vaseux, &c.
155	<i>Unio tuberculatus</i> Barnes.	Painted Rock.
155	<i>pustulatus</i> Lea.	Upper Missouri
155	<i>verrucosus</i> Barnes.	St. Croix river,
155	<i>plicatus</i> Lesueur.	Prairie du Chic
155	<i>trigonus</i> Lea.	Prairie du Chi
155	<i>ebenus</i> Lea.	Upper Missou
155	<i>gibbosus</i> Barnes.	St. Croix river
155	<i>rectus</i> Lam.	Upper Missou
	<i>U. prolongus</i> Barnes.	river.

Name.	Locality.
<i>U. siliquoides</i> Barnes.	Upper Missouri river.
<i>inflatus</i> Barnes.	Upper Missouri river.
<i>complanatus</i> Lea.	Lake Vaseux.
<i>U. purpureus</i> Say.	
<i>crassus</i> Say.	Upper Missouri river.
<i>radiatus</i> Barnes.	Lake Vaseux.
<i>occidens</i> Lea.	Wisconsin river, &c.
<i>U. ventricosus</i> Say.	
<i>ventricosus</i> Barnes.	Upper Missouri river.
<i>alatus</i> Say.	Upper Missouri river.
<i>Symphynota alata</i> Lea.	
<i>gracilis</i> Barnes.	Upper Missouri river.
<i>Symphynota gracilis</i> Lea.	

tufts.—A List of Shells collected at Swampscot, Lynn, and vicinity: by SAMUEL TUFTS, Jr. (From Proceedings of Essex Institute, vol. i, p. 25. Salem, Mass., 1856.)

[No descriptions are given, but notes on locality, &c.—W. G. B.]

Page.		Page.	
25	<i>Teredo dilatata</i> St.	27	<i>Petricola pholadiformis</i> .
26	<i>Pholas crispata</i> .	27	<i>Sanguinolaria fusca</i> .
26	<i>costata</i> ?	27	<i>sordida</i> .
26	<i>Solen ensis</i> .	27	<i>Tellina tenera</i> .
26	<i>Machæra costata</i> .	27	<i>tenta</i> .
26	<i>Solemya velum</i> .	27	<i>Lucina radula</i> .
26	<i>borealis</i> .	27	<i>flexuosa</i> .
26	<i>Glycymeris siliqua</i> .	27	<i>Cyclas partumeta</i> .
26	<i>Mya arenaria</i> .	27	——?
26	<i>truncata</i> .	27	<i>Astarte castanea</i> .
26	<i>Corbula contracta</i> ?	27	<i>sulcata</i> .
26	<i>Pandora trilineata</i> .	27	<i>quadrans</i> .
26	<i>Osteodesma hyalina</i> .	27	<i>Cyprina Islandica</i> .
26	<i>Anatina papyracea</i> .	27	<i>Cytherea convexa</i> .
26	<i>Cochlodesma Leana</i> .	27	<i>Venus mercenaria</i> .
26	<i>Thracia Conradi</i> .	27	<i>gemma</i> .
26	<i>Couthouyi</i> St.	27	<i>Cardium pinnulatum</i> .
26	<i>truncata</i> .	27	<i>Islandicum</i> .
27	<i>Macra solidissima</i> .	28	<i>Grœnlandicum</i> .
27	<i>ovalis</i> .	28	<i>Cardita borealis</i> .
27	<i>Mesodesma areolata</i> .	28	<i>Nucula thracisformis</i> .
27	<i>Kellia rubra</i> .	28	<i>limatula</i> .
27	<i>Saxicava distorta</i> .	28	<i>minuta</i> .

Gould.—Catalogue of Shells collected in California by W. P. Blake, with descriptions of the new species: by AUGUSTUS A. GOULD, M. D. (From Appendix to the Preliminary Geological Report of William P. Blake, Geologist of the Survey in California under the command of Lieut. R. S. Williamson. Washington, 1855.)

No descriptions are given of the following:—

Age.	Name.	Locality.
22	<i>Ostrea</i> ———.	San Diego.
22	<i>Pecten latiauratus</i> <i>Conrad.</i>	San Diego.
22	<i>Pecten</i> ———.	San Diego.
22	<i>Mytilus edulis.</i>	San Francisco.
22	<i>Modiola capax</i> <i>Conrad.</i>	San Diego.
22	<i>Venus Nuttallii</i> <i>Conrad.</i>	San Pedro.
22	<i>fluctifraga</i> <i>Sowerby.</i>	San Diego.
22	<i>Tapes grata</i> <i>Say.</i>	San Pedro.
22	<i>T. discors</i> <i>Sowerby.</i>	
22	<i>straminea</i> <i>Conrad.</i>	
22	<i>gracilis</i> <i>Gould.</i>	San Pedro.
22	<i>Cyclas</i> ———.	Colorado Desert.
22	<i>Cardium cruentatum</i> <i>Gould.</i>	San Diego.
22	<i>Lucina orbella</i> <i>Gould.</i>	San Pedro.
22	<i>Nuttallii</i> <i>Conrad.</i>	San Pedro.
22	<i>Mesodesma rubrotincta?</i> <i>Sowerby.</i>	San Pedro.

Page.	Name.	Locality
22	<i>Tellina vicina</i> Adams.	San Diego.
22	secta Conrad.	San Pedro.
22	<i>Sphenia Californica</i> Conrad.	San Diego.
22	<i>Petricola cylindracea</i> Desh.	Monterey, San Pedro.
	<i>P. card'oides</i> Conrad.	
22	<i>Solecurtus Californiensis</i> Conrad.	San Diego.
22	<i>Gnathodon Lecontei</i> Conrad.	Colorado Desert.
22	<i>Lottia scabra</i> Gould.	San Francisco.
22	patina Esch.	San Pedro.
22	mitra Brod.	San Pedro.
22	<i>Calyptra hispida</i> Brod.	San Pedro, San Diego.
22	<i>Crepidula incurva</i> Brod.	San Pedro.
22	<i>Bulla nebulosa</i> Gould.	San Diego.
22	(<i>Haminea</i>) <i>virescens</i> Sowerby.	San Diego.
22	vesicula Gould.	San Diego.
22	(<i>Tornatina</i>) <i>inculta</i> Gould.	San Diego.
22	<i>Trochus mæstus</i> Jonas.	San Diego.
22	<i>Phasianella compta</i> Gould.	San Diego.
22	<i>Littorina</i> ———.	
22	<i>Melampus</i> ———.	San Diego.
22	<i>Oliva biplicata</i> .	San Pedro.
22	<i>Potamis pullatus</i> Gould.	San Diego.
22	<i>Amnicola protea</i> Gould.	Colorado Desert.
22	longinqua Gould.	Colorado Desert.
22	<i>Planorbis ammon</i> Gould.	Color. Des., Ocoya cr.
22	<i>Physa humerosa</i> Gould.	Colorado Desert.
22	<i>Succinea</i> ———.	Ocoya creek.

Descriptions are given of the following:—

23	<i>Physa humerosa</i> Gould.	Color. Des., Pecos riv.
23	<i>Planorbis ammon</i> Gould.	Colorado Desert.
24	<i>Amnicola protea</i> Gould.	Colorado Desert.
24	longinqua Gould.	Colorado Desert.
25	<i>Potamis pullatus</i> Gould.	San Diego.
25	<i>Phasianella compta</i> Gould.	San Diego.
26	<i>Bulla</i> (<i>Tornatina</i>) <i>inculta</i> Gould.	San Diego.
26	(<i>Haminea</i>) <i>vesicula</i> Gould.	San Diego.
26	<i>Cardium cruentatum</i> Gould.	San Pedro.
27	<i>Tapes gracilis</i> Gould.	San Pedro.
27	<i>Mytilus edulis</i> ?	San Francisco.
28	<i>Ostrea</i> ———.	San Diego.
28	———.	San Diego.
28	<i>Pecten</i> ———.	San Diego.

Gould.—Catalogue of the Recent Shells, with descriptions of the new species: by AUGUSTUS A. GOULD, M. D. (From the Reports of Explorations and Surveys to ascertain the most practicable and economical Route for a Railroad from the Mississippi River to the Pacific Ocean, &c., by Lieut. R. S. Williamson, Top. Eng., vol. v. 33d Congress, 2d Session, Senate Ex. Doc., No. 78, vol. xiii, pt. v. 4to. Washington, 1856. The general title-page of the Report bears the date of 1853, that of Part II, of which this paper forms an Appendix, bears the date of 1857. Like all the Pacific Railroad Reports, it forms a portion also of the House Documents.)

No descriptions are given of the following:—

Page.	Name.	Locality.
330	<i>Ostrea</i> ———.	San Diego.
330	<i>Pecten monotimeris</i> Conrad.	San Diego.
330	<i>ventricosus</i> Sowerby.	San Diego.
	<i>P. tumidus</i> Sowerby.	
330	<i>Mytilus edulis</i> .	San Francisco.
330	<i>Modiola capax</i> Conrad.	San Diego.
330	<i>Venus Nuttallii</i> Conrad.	San Pedro.
330	<i>fluctifraga</i> Sowerby.	San Diego.
330	<i>Tapes grata</i> Say.	San Pedro.
	<i>T. discors</i> Sowerby.	
	<i>straminea</i> Conrad.	
330	<i>gracilis</i> Gould.	San Pedro.
330	<i>Cyclas</i> ———?	Colorado Desert.
330	<i>Cardium cruentatum</i> Gould.	San Diego.
330	<i>Lucina orbella</i> Gould.	San Pedro.
330	<i>Nuttallii</i> Conrad.	San Pedro.
330	<i>Mesodesma rubrotincta</i> ? Sowerby.	San Pedro.
330	<i>Tellina vicina</i> Adams.	San Diego.
330	<i>secta</i> Conrad.	San Pedro.
330	<i>Sphænia Californica</i> Conrad.	San Diego.
330	<i>Petricola carditoides</i> Conrad.	Monterey, San Pedro.
	<i>P. cylindræa</i> Desh.	
330	<i>Solecurtus Californiensis</i> Conrad.	San Diego.
330	<i>Gnathodon Lecontei</i> Conrad.	Colorado Desert.
	<i>G. trigonum</i> Petit.	
330	<i>Lottia scabra</i> Gould.	San Francisco.
330	<i>patina</i> Esch.	San Pedro.
330	<i>Scurria pallida</i> Gr.	San Pedro.
	<i>Lottia mitra</i> Br.	

Page.	Name.	Locality.
330	<i>Calyptra hispida</i> Br.	San Pedro, San Diego.
330	<i>Crepidula incurva</i> Br.	San Pedro.
330	<i>Bulla nebulosa</i> Gould.	San Diego.
330	(<i>Haminea</i>) <i>virescens</i> Sowerby	San Diego.
330	<i>vesicula</i> Gould.	San Diego.
330	<i>Bulla</i> (<i>Tornatina</i>) <i>inculta</i> Gould.	San Diego.
330	<i>Trochus mæstus</i> Jonas.	San Diego.
330	<i>Phasianella compta</i> Gould.	San Diego.
331	<i>Littorina</i> —.	San Diego.
331	<i>Melampus</i> —.	San Diego.
331	<i>Oliva biplicata</i> Sowerby.	San Pedro.
331	<i>Potamis pullatus</i> Gould.	San Diego.
331	<i>Amnicola protea</i> Gould.	Colorado Desert.
331	<i>longinqua</i> Gould.	Colorado Desert.
331	<i>Planorbis ammon</i> Gould.	Color. Des., Ocoya cr.
331	<i>Physa humerosa</i> Gould.	Colorado Desert.
331	<i>Succinea</i> —.	Ocoya creek.
331	<i>Helix Vancouverensis</i> Lea.	San Francisco.
331	<i>San Diegensis</i> .	Point Reyes.
331	<i>infumata</i> Gould.	Point Reyes.
331	<i>Oregonensis</i> Lea.	Cypress Point.

Descriptions are given of the following:—

FRESH-WATER SHELLS FROM THE COLORADO DESERT.

Page.	Plate.	Fig.	Name.	Locality.
331	xi	1-5	<i>Physa humerosa</i> Gould.	Color. Des., Pecos riv.
331	xi	12-18	<i>Planorbis ammon</i> Gould.	Colorado Desert.
332	xi	6-9	<i>Amnicola protea</i> Gould.	Colorado Desert.
			<i>Melania exigua</i> Conrad.	
333	xi	10-11	<i>longinqua</i> Gould.	Colorado Desert.

MARINE SHELLS FROM THE COAST.

333	xi	23-24	<i>Potamis pullatus</i> Gould.	San Diego.
333	xi	25-26	<i>Phasianella compta</i> Gould.	San Diego.
334	xi	27-28	<i>Bulla</i> (<i>Tornatina</i>) <i>inculta</i> Gld.	San Diego.
334	xi	29	(<i>Haminea</i>) <i>vesicula</i> Gould.	San Diego.
334	xi	21-22	<i>Cardium cruentatum</i> Gould.	San Pedro.
335	xi	19-20	<i>Tapes gracilis</i> Gould.	San Pedro.
335			<i>Mytilus edulis</i> ?	San Francisco.
335			<i>Ostrea</i> —?	San Pedro.
336			—?	San Diego.

Lea, Binney.—Explorations in Nebraska. Preliminary Report of Lieut. G. K. Warren, Top. Eng., &c. &c. Dr. F. V. Hayden's Report on Geology and Natural History. (From Executive Documents printed by order of the House of Representatives during the 2d Session of the 35th Congress, 1858-9, vol. ii, pt. iii, p. 723. Washington, 1859.)

Page. Name. Locality.

Isaac Lea.

723 Notes on Geographical Distribution.

FLUVIATILE SHELLS.

724	<i>Unio alatus</i> Say.	Big Sioux river.
724	<i>levissimus</i> Lea.	Big Sioux river.
724	<i>luteolus</i> Lam.	Big Sioux river.
724	<i>asperimus</i> Lea.	Big Sioux river.
724	<i>rectus</i> Lea.	Big Sioux river.
724	<i>elegans</i> Lea.	James river.
724	<i>zig-zag</i> Lea.	White Earth river.
724	<i>anodontoides</i> Lea.	James river.
724	<i>Margaritana complanata</i> Lea.	Fort Clark, Mo.
724	<i>Anodonta Ferussaciana</i> Lea.	White river, Nebraska.
724	<i>Lymnea elodes</i> Say.	Big Sioux river.
724	<i>Nuttalliana</i> Lea.	Big Sioux river.
724	<i>humilis</i> Say.	Big Sioux river.
724	<i>Haydeni</i> Lea.	Big Sioux river.
724	<i>Kirtlandiana</i> Lea.	Big Sioux river.
724	<i>umbrosa</i> Say.	Grindstone river, N. T.
724	<i>lubricoides</i> Lea.	Grindstone river, N. T.
724	<i>Philadelphica</i> Lea.	Grindstone river, N. T.
724	<i>Planorbis bicarinatus</i> Say.	Mouth of Big Sioux river.
724	<i>trivolis</i> Say.	Mouth of Big Sioux river.
724	<i>lentus</i> Say.	Mouth of Big Sioux river.
724	<i>parvus</i> Say.	Mouth of Big Sioux river.
724	<i>campanulatus</i> Say.	Mouth of Big Sioux river.
724	<i>Physa heterostropha</i> Say.	Mouth of Big Sioux river.
724	<i>integra</i> Hald.?	Mouth of Big Sioux river.
724	<i>elongata</i> Say.	Mouth of Big Sioux river.
724	<i>ampularia</i> Say.	Mouth of Big Sioux river.
724	<i>Pisidium</i> —?	Grindstone creek.
724	<i>Cyclas</i> —?	Grindstone creek.
724	<i>Daphnia</i> —?	Grindstone creek.
724	<i>Amnicola porata</i> Say.	Fort Berthold.
724	<i>lapidaria</i> .	Fort Berthold.

W. G. Binney.

LAND SHELLS.

Page.	Name.	Locality.
725	<i>Helix minuscula</i> Binney.	Council Bluff, N. T.
725	<i>lineata</i> Say.	Council Bluff, N. T.
725	<i>striatella</i> Anthony.	Council Bluff, N. T.
725	<i>inflecta</i> Say.	Council Bluff, N. T.
725	<i>hirsuta</i> Say.	Council Bluff, N. T.
725	<i>solitaria</i> Say.	Council Bluff, N. T.
725	<i>alternata</i> Say.	Council Bluff, N. T.
725	<i>elevata</i> Say.	Council Bluff, N. T.
725	<i>fallax</i> Say.	Council Bluff, N. T.
725	<i>concava</i> Say.	Council Bluff, N. T.
725	<i>ligera</i> Say.	Council Bluff, N. T.
725	<i>profunda</i> Say.	Near Ft. Leavenworth, K. T.
725	<i>multilineata</i> Say.	Near Ft. Leavenworth, K. T.
725	<i>monodon</i> Rack.	Near Ft. Leavenworth, K. T.
725	<i>pulchella</i> Müll. (p. 724).	Near Ft. Leavenworth, K. T.
725	<i>costata</i> Müll. (p. 724).	Near Ft. Leavenworth, K. T.
725	<i>arborea</i> Say.	Near Fort Berthold.
725	<i>chersina</i> Say.	Near Fort Berthold.
725	<i>electrina</i> Gould.	Near Fort Berthold.
725	<i>Cooperi</i> W. G. Binney (n. s.)	Black hills, N. T.
725	<i>Pupa Nebraskana</i> W. G. Binn. (n. s.)	Fort Berthold, K. T.
725	<i>Blandi</i> W. G. Binney (n. s.)	Fort Berthold, K. T.
725	<i>pentodon</i> Say.	Council Bluff, N. T.
725	<i>modesta</i> Say.	Council Bluff, N. T.
725	<i>badia</i> Adams.	Council Bluff, N. T.
725	<i>Bulimus lubricus</i> Müll.	Fort Berthold.
725	<i>Succinea venusta</i> Say.	Yellowstone river.
725	<i>retusa</i> Lea.	Yellowstone river.
725	<i>Haydeni</i> W. G. Binney (n. s.)	Yellowstone river.
725	<i>lineata</i> W. G. Binn. (n. s., p. 724.)	Ft. Union, Yellowstone riv.
725	<i>Nuttalliana</i> Lea.	Fort Union.
725	<i>obliqua</i> Say.	Fort Berthold, N. T.

Gould.—Reports of the Commissioners of the Zoological Survey of the State. Boston, 1838. (Mass. House. Doc., No. 72. April, 1838.) Mollusca: by Dr. A. A. GOULD.

[The following species were specified by name only as having been discovered since 1838 (vide ante, p. 39).—W. G. B.]

Page.		Page.	
107	<i>Mya truncata</i> Penn.	107	<i>Tellina sordida</i> Couth.
107	<i>Thracia Conradi</i> Couth.	107	<i>tenera</i> Say.

Page.		Page.	
107	<i>Cryptodon flexuosa</i> Turton.	107	<i>Physa elongata</i> Say.
107	<i>Mesodesma Jauresii</i> De Joannis.	107	<i>Valvata tricarinata</i> Say.
107	<i>Venus fluctuosa</i> Gould, MS.	107	<i>Paludina canaliculata</i> Gld., lustrica Say. [MS.
107	<i>Cardium pubescens</i> Couth.	107	<i>Oxinoë glabra</i> Couth.
107	<i>Nucula thraciæformis</i> Stor.	107	<i>Scalaria Nov-Angliæ</i> Couth.
107	<i>lævigata</i> Gould, MS.	107	<i>subulata</i> Couth.
107	<i>myalis</i> Couth.	107	<i>Natica immaculata</i> Totten.
107	<i>tenuisulcata</i> Couth.	107	<i>consolidata</i> Couth.
107	<i>Modiola pectinula</i> Gld., MS.	107	<i>Actæon trifidus</i> Totten.
107	<i>discors</i> Linn.	107	<i>convoluta</i> Gould, MS.
107	<i>discrepans</i> Montagu.	107	<i>Jaminia exigua</i> Couth.
107	<i>Terebratula septentriona-</i> <i>lis</i> Couth.	107	<i>Lacuna neritoidea</i> Gld. MS.
107	<i>thalassina</i> Gould, MS.	107	<i>Turbo incarnatus</i> Couth.
107	<i>Chiton fulminatus</i> Couth.	107	<i>cinereus</i> Couth.
107	<i>sagrinatus</i> Couth.	107	<i>obscurus</i> Couth.
107	<i>Emersonii</i> Couth.	107	<i>aculeus</i> Gould, MS.
107	<i>pectinatus</i> Gould, MS.	107	<i>Turritella erosa</i> Couth.
107	<i>Patella candida</i> Couth.	107	<i>Pyramis striatula</i> Couth.
107	<i>Rimula Noachina</i> Linn.	107	<i>Cancellaria buccinoides</i> Couth.
107	<i>Galericulum ovatum</i> Brown.	107	<i>Trichotropis costellatus</i> Couth.
107	<i>lævigatum</i> Brown.	107	<i>Pleurotoma bicarinata</i> Cou.
107	<i>Bulla insculpta</i> Totten.	107	<i>Fusus pleurotomarius</i> Cou.
107	<i>triticea</i> Couth.	107	<i>harpularius</i> Couth.
107	<i>lineolata</i> Couth.	107	<i>Murex turriculus</i> Montagu.
107	<i>Bullina canaliculata</i> Say.	107	<i>scalariformis</i> Gould, MS.
107	<i>Bulimus lubricus</i> Penn.		

Eaton.—Zoological Text-book; containing Cuvier's four grand Divisions of Animals, &c. &c., with short descriptions of some of the most common species, &c.: by AMOS EATON. Albany, 1826.

[The first part of this work is devoted to Systematic Zoology, pp. 111-118 including Mollusca, with descriptions of genera. The second part contains descriptions of many species of animals, the genera being arranged alphabetically. The following are Mollusca, no locality being given. Most of them are foreign.—W. G. B.]

Page.		Page.	
141	<i>Anomia squamula</i> .	153	<i>Arca Noë.</i>
141	<i>tridentata</i> .	155	<i>Argonauta argo.</i>
141	<i>terebratula</i> .	155	<i>Ascidia rustica.</i>

Page.		Page.	
159	<i>Buccinum stromboides.</i>	217	<i>Mya purpurea.</i>
159	<i>Bulla ampulla.</i>	218	<i>ovata.</i>
160	<i>fontinalis.</i>	218	<i>cariosa.</i>
166	<i>Cardium edule.</i>	218	<i>ochracea.</i>
169	<i>Chama gigas.</i>	218	<i>nasuta.</i>
169	<i>antiquata.</i>	219	<i>alata.</i>
169	<i>Chiton tuberculatus.</i>	219	<i>cylindrica.</i>
170	<i>Clio pyramidata.</i>	219	<i>undulata.</i>
173	<i>Conus ammiralis.</i>	219	<i>plicata.</i>
176	<i>Cypræa arabica.</i>	219	<i>undata.</i>
176	<i>argus.</i>	219	<i>elliptica.</i>
177	<i>tigris.</i>	220	<i>carinata.</i>
178	<i>Dentalium elephantinum.</i>	220	<i>prælonga.</i>
179	<i>Donax trunculus.</i>	220	<i>gibbosa.</i>
179	<i>Doris argo.</i>	220	<i>cuneata.</i>
193	<i>Haliotis tuberculata.</i>	220	<i>radiata.</i>
193	<i>Helix albilabris.</i>	221	<i>mucronata.</i>
193	<i>thyroidus.</i>	221	<i>inflata.</i>
193	<i>arboreus.</i>	221	<i>ventricosa.</i>
193	<i>tridentata.</i>	221	<i>siliquoidea.</i>
194	<i>alternata.</i>	221	<i>plana.</i>
194	<i>glaphyra.</i>	221	<i>triangularis.</i>
194	<i>trivolvus.</i>	222	<i>gracilis.</i>
194	<i>bicarinatus.</i>	222	<i>parva.</i>
195	<i>parvus.</i>	222	<i>arcuata.</i>
195	<i>catascopus.</i>	222	<i>rugosa.</i>
195	<i>heterostrophus.</i>	222	<i>complanata.</i>
195	<i>subcarinatus.</i>	223	<i>Mytilus margaritiferus.</i>
195	<i>virginica.</i>	224	<i>cataractus.</i>
196	<i>vivipara.</i>	224	<i>marginatus.</i>
196	<i>decisa.</i>	224	<i>Nautilus pompilius.</i>
206	<i>Limax ater.</i>	225	<i>Nerita glauca.</i>
206	<i>maximus.</i>	227	<i>Onchidium typhæ.</i>
206	<i>agrestis.</i>	228	<i>Ostræa maxima.</i>
208	<i>Mactra solida.</i>	229	<i>Jacobæa.</i>
208	<i>lutraria.</i>	229	<i>edulis.</i>
213	<i>Murex tribulus.</i>	229	<i>plicatula.</i>
213	<i>erinaceus.</i>	232	<i>Patella fornicata.</i>
216	<i>Mya margaritifera.</i>	232	<i>fissura.</i>
216	<i>cornuta.</i>	240	<i>Pholas dactylus.</i>
216	<i>verrucosa.</i>	241	<i>Pinna muricata.</i>
216	<i>nodosa.</i>	252	<i>Sepia officinalis.</i>
217	<i>tuberculata.</i>	252	<i>loligo.</i>
217	<i>rugosa.</i>	256	<i>Solen vagina.</i>
217	<i>crassa.</i>	258	<i>Spondylus quæderopus.</i>

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262	Strombus gigas.	267	Teredo navalis.
266	Tellina fragilis.	272	Trochus magus.
266	<i>radiata.</i>	273	Turbo corticaria.
266	<i>similis. (Amer.)</i>	275	Venus mercenaria. (N. Y.)
266	<i>dubia. (Amer.)</i>	278	Voluta pallida.

Gould.—Mollusca and Shells of the United States Exploring Expedition (Com. Wilkes): by A. A. GOULD, M. D. Boston, 1852.

[The following are the American species.—W. G. B.]

Page.	Fig.	Name.	Locality.
2	2, 2 ^a , 2 ^b	Arion foliolatus Gould.	Puget Sound.
3	1-1 ^c	Limax Columbianus Gould.	Puget Sound, &c.
28	29-29 ^b	Succinea rusticana Gould.	Oregon.
36	37	Helix Vancouverensis Lea.	Oregon.
36	41-41 ^b	<i>strigosa</i> Gould.	Puget Sound, &c.
37	42-42 ^a	<i>sportella</i> Gould.	Puget Sound, &c.
66	38	<i>Nuttalliana</i> Lea.	Puget Sound, &c.
66	36	<i>Townsendiana</i> Lea.	Willamet creek.
		<i>Helix pedestris</i> Gould (p. 65).	
		<i>rudis</i> Gould (p. 65).	
67	35-35 ^c	<i>labiosa</i> Gould.	Oregon, &c.
68	39-39 ^a	<i>loricata</i> Gould.	Sacramento river.
69	74-74 ^b	<i>devia</i> Gould.	Puget Sound.
70	40-40 ^c	<i>germana</i> Gould.	Oregon.
112	131-131 ^c	Planorbis vermicularis Gould.	Interior of Oregon.
113	132-132 ^a	<i>opercularis</i> Gould.	Sacramento river.
113	130-130 ^b	<i>corpulentus</i> Say.	Columbia river.
114		<i>trivolvus</i> Say.	
120	138, 138 ^a	Physa virginea Gould.	Sacramento river.
121	141, 141 ^a	Limnea lepida Gould.	Lake Vancouver.
122		<i>apicina</i> Lea.	Oregon.
122		<i>umbrosa</i> Say.	Columbia and Sacramento rivers.
141	164, 164 ^a	Melania sillicula Gould.	Nisqually.
142	163, 163 ^a	<i>bulbosa</i> Gould.	Columbia river.
143	165	<i>plicifera</i> Lea.	Lake George, Oreg.
144	166, 166 ^a	Cerithium (Potamis) sacratum	Sacramento river.
149	175-175 ^c	<i>filosum</i> Gould. [Gould.	Puget Sound.
185	207-207 ^b	Trochus ligatus Gould.	Puget Sound.
194	230-230 ^b	Lacuna carinata Gould.	Puget Sound.
197	237, 237 ^a	Littorina patula Gould.	San Francisco.

Lea, Agassiz.—In the Proceedings of the American Philosophical Society of Philadelphia, occur the following:—

Vol.	Pa.	Name.	Vol.	Pa.	Name.
		Isaac Lea.			
Nov. Dec.	1838	[For locality, see Trans. American Philosophical Society.—W. G. B.]			
i	66	Melania Cincinnatiensis Lea.	i	289	Anodonta Footiana Lea.
Mar. Apr.	1840		i	289	Melania catenaria Lea.
i	187	Patella amœna Say= Patelloida testudinalis .	i	289	Boykiniana Lea.
Oct.	1840		i	289	Carocolla Cumberlandiana Lea.
i	285	Unio Cincinnatiensis	i	289	Cyclostoma Cincinnatiensis Lea.
i	285	pilaris Lea. [Lea.]	Feb. 1841		
i	285	Geddingsianus Lea.	ii	11	Melania Hildrethiana
i	286	tuberosus Lea.	ii	11	castanea Lea. [Lea.]
i	286	cuneolus Lea.	ii	11	lævigata Lea.
i	286	Lesueurianus Lea.	ii	11	Kirtlandiana Lea.
i	286	Stonensis Lea.	ii	11	Taitiana Lea.
i	286	lens Lea.	ii	11	dubia Lea.
i	286	plenus Lea.	ii	12	ebenum Lea.
i	286	tener Lea.	ii	12	rufa Lea.
i	286	pusillus Lea.	ii	12	fusiformis Lea.
i	286	amœnus Lea.	ii	12	clavæformis Lea.
i	286	incrassatus Lea.	ii	12	gracilis Lea.
i	286	Boydianus Lea.	ii	12	subsolida Lea.
i	287	Sloatianus Lea.	ii	12	Ocoeensis Lea.
i	287	paulus Lea.	ii	12	subcylindracea Lea.
i	287	strigosus Lea.	ii	12	sordida Lea.
i	287	lineatus Lea.	ii	12	regularis Lea.
i	287	exiguus Lea.	ii	12	fuliginosa Lea.
i	287	tortivus Lea.	ii	12	Nickliniana Lea.
i	287	subangulatus Lea.	ii	12	viridis Lea.
i	287	striatus Lea.	ii	12	occidentalis Lea.
i	287	fatuus Lea.	ii	12	Niagaraensis Lea.
i	287	dactylus Lea.	ii	12	globula Lea.
i	2-7	obtusus Lea.	ii	13	altilis Lea.
i	288	Boykinianus Lea.	ii	13	strigosa Lea.
i	288	Edgarianus Lea.	ii	13	virgata Lea.
i	288	biangularis Lea.	ii	13	tenebrosa Lea.
i	288	nitens Lea.	ii	13	teres Lea.
i	288	Holstonensis Lea.	ii	13	obtusa Lea.
i	288	dolabelloides Lea.	ii	13	Lecontiana Lea.
i	288	Tennesseensis Lea.	ii	13	corrugata Lea.
i	288	atro-marginatus Lea.	ii	13	monozonalis Lea.
i	288	Bournianus Lea.	ii	13	terebialis Lea.
i	288	Margaritana Curreyiana Lea.	ii	13	columella Lea.
i	289	Anodonta Harpethiana	ii	13	blanda Lea.
i	289	argentea Lea. [Lea.]	ii	13	crebri-costata Lea.
i	289	ferruginea Lea.	ii	14	Curreyana Lea.
i	289	Cowperiana Lea.	ii	14	Edgariana Lea.
i	289	Maryattiana Lea.	ii	14	decora Lea.
			ii	14	costulata Lea.

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ii	14	<i>Melania nitida</i> Lea.	ii	33	<i>Lymnea rustica</i> Lea.
ii	14	<i>plicatula</i> Lea.	ii	33	<i>plica</i> Lea.
ii	14	<i>concinna</i> Lea.	ii	33	<i>coarctata</i> Lea.
ii	14	<i>Babylonica</i> Lea.	ii	33	<i>casta</i> Lea.
ii	14	<i>exarata</i> Lea.	ii	33	<i>parva</i> Lea.
ii	14	<i>Potosiensis</i> Lea.	ii	33	<i>curta</i> Lea.
ii	14	<i>acuto-carinata</i> Lea.	ii	33	<i>strigosa</i> Lea.
ii	14	<i>Warderiana</i> Lea.	ii	33	<i>Kirtlandiana</i> Lea.
ii	14	<i>sulcosa</i> Lea.	ii	34	<i>Paludina regularis</i> Lea.
ii	15	<i>striata</i> Lea.	ii	34	<i>obtusa</i> Lea.
ii	15	<i>pilula</i> Lea.	ii	34	<i>Troostiana</i> Lea.
ii	15	<i>circincta</i> Lea.	ii	34	<i>Anculosa Troostiana</i>
ii	15	<i>venusta</i> Lea.	ii	34	<i>gibbosa</i> Lea. [Lea.
ii	15	<i>Florentiana</i> Lea.	ii	34	<i>dentata</i> Lea.
ii	15	<i>Duttoniana</i> Lea.	ii	34	<i>variabilis</i> Lea.
ii	15	<i>Holstonia</i> Lea.	ii	34	<i>Amnicola orbiculata</i>
ii	15	<i>caliginosa</i> Lea.	ii	34	<i>parva</i> Lea. [Lea.
ii	15	<i>nodulosa</i> Lea.	ii	34	<i>Io tenebrosa</i> Lea.
Apr. 1841			ii	34	Notes on parturition, &c., of Uniones.
ii	30	<i>Unio Sapotalensis</i> Lea.	Oct. 1841		
ii	30	<i>Tecomatensis</i> Lea.	ii	81	<i>Valvata bicarinata</i> Lea.
ii	30	<i>Bigbyensis</i> Lea.	ii	82	<i>Unio Brumleyanus</i> Lea.
ii	31	<i>crocatus</i> Lea.	ii	82	<i>regularis</i> Lea.
ii	31	<i>callosus</i> Lea.	ii	82	<i>mæstus</i> Lea.
ii	31	<i>Duttonianus</i> Lea.	ii	82	<i>sparsus</i> Lea.
ii	31	<i>Georgianus</i> Lea.	ii	82	<i>argenteus</i> Lea.
ii	31	<i>Anodonta Montezuma</i>	ii	82	<i>Helix Mobiliana</i> Lea.
ii	31	<i>globosa</i> Lea. [Lea.	ii	82	<i>minutissima</i> Lea.
ii	31	<i>Helix Tennesseensis</i>	ii	82	<i>Melania turgida</i> Lea.
		Lea.	ii	82	<i>glabra</i> Lea.
ii	31	<i>Carocolla Edgariana</i>	ii	82	<i>perfusca</i> Lea.
		Lea.	ii	82	<i>picta</i> Lea.
ii	31	<i>Succinea Wardiana</i>	ii	83	<i>impressa</i> Lea.
		Lea.	ii	83	<i>robusta</i> Lea.
ii	32	<i>Totteniana</i> Lea.	ii	83	<i>Jayana</i> Lea.
ii	32	<i>Nuttalliana</i> Lea.	ii	83	<i>Anculosa rubiginosa</i>
ii	32	<i>aurea</i> Lea.	ii	83	<i>bella</i> Lea. [Lea.
ii	32	<i>Oregonensis</i> Lea.	ii	83	<i>Griffithiana</i> Lea.
ii	32	<i>inflata</i> Lea.	ii	83	<i>tuberculata</i> Lea.
ii	32	<i>Planorbis regularis</i> Lea.	ii	83	<i>Valvata bicarinata</i> Lea.
ii	32	<i>Buchanensis</i> Lea.	ii	83	<i>Paludina angulata</i> Lea.
ii	32	<i>bellus</i> Lea.	ii	83	<i>Coosaensis</i> Lea.
ii	32	<i>Physa Hildrethiana</i>	ii	83	<i>cyclostomataformis</i>
ii	32	<i>inflata</i> Lea. [Lea.			Lea.
ii	32	<i>Troostensis</i> Lea.	Jan.-Apr. 1842		
ii	32	<i>Lymnea Philadelphica</i>	ii	150	<i>Melania altalis</i> Lea.
		Lea.	Aug.-Oct. 1842		
ii	33	<i>Griffithiana</i> Lea.	ii	224	<i>Unio Foremanianus</i>
ii	33	<i>Nuttalliana</i> Lea.	ii	224	<i>Haleianus</i> Lea. [Lea.
ii	33	<i>bulimoides</i> Lea.	ii	225	<i>Dariensis</i> Lea.
ii	33	<i>exigua</i> Lea.			
ii	33	<i>planulata</i> Lea.			
ii	33	<i>fusiformis</i> Lea.			

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ii	225	Anodonta Dunlapiana	iv	163	Unio unicolor <i>Lea.</i>
Nov.-			iv	163	<i>flavescens</i> <i>Lea.</i>
Dec.	1842	<i>Lea.</i>	iv	164	<i>pallescens</i> <i>Lea.</i>
ii	234	Notes on turbinated and discoid shells, as Turbo duplicatus.	iv	164	<i>utriculus</i> <i>Lea.</i>
			iv	164	<i>spatulatus</i> <i>Lea.</i>
			iv	164	<i>tumescens</i> <i>Lea.</i>
Dec	1842		iv	164	<i>caperatus</i> <i>Lea.</i>
ii	237	Melania rufa <i>Lea</i> = <i>rufes-</i> <i>cens.</i>	iv	164	<i>fulgidus</i> <i>Lea.</i>
ii	237	<i>striata</i> <i>Lea</i> = <i>striatula.</i>	iv	164	<i>pulvinulus</i> <i>Lea.</i>
ii	237	<i>laevigata</i> <i>Lea</i> = <i>laevis.</i>	iv	164	<i>hyalinus</i> <i>Lea.</i>
ii	237	<i>corrugata</i> <i>Lea</i> = <i>rugo-</i> <i>sa.</i>	iv	164	<i>Estabrookianus</i> <i>Lea.</i>
ii	237	<i>Unio compressus</i> <i>Lea</i> = <i>pressus.</i>	iv	164	<i>approximus</i> <i>Lea.</i>
ii	242	<i>Melania plicatula</i> <i>Lea</i> = <i>Deshaysiana.</i>	iv	164	<i>symmetricus</i> <i>Lea.</i>
ii	242	<i>plicata</i> <i>Lea</i> = <i>Menki-</i> <i>ana.</i>	iv	164	<i>fuliginosus</i> <i>Lea.</i>
ii	242	<i>exarata</i> <i>Lea</i> = <i>arata.</i>	iv	165	<i>caliginosus</i> <i>Lea.</i>
ii	242	<i>Planorbis lens</i> <i>Lea</i> = <i>Brog-</i> <i>niarti.</i>	iv	165	<i>Binneyi</i> <i>Lea.</i>
ii	242	Melania Vanuxemiana	iv	165	<i>Gouldii</i> <i>Lea.</i>
ii	242	<i>ovalis</i> <i>Lea.</i> [<i>Lea.</i>	iv	165	<i>Margaritana minor</i> <i>Lea.</i>
ii	242	<i>Haysiana</i> <i>Lea.</i>	iv	165	<i>Anodonta tetragona</i> <i>Lea.</i>
ii	242	<i>excisa</i> <i>Lea.</i>	iv	165	<i>Melania Buddii</i> <i>Lea.</i>
ii	242	Schizostoma n. g. <i>Lea.</i>	iv	165	<i>torta</i> <i>Lea.</i>
ii	242	Melania Ordiana <i>Lea.</i>	iv	165	<i>pernodosa</i> <i>Lea.</i>
ii	242	<i>brevis</i> <i>Lea.</i>	iv	165	<i>filum</i> <i>Lea.</i>
ii	242	<i>oliva</i> <i>Lea.</i>	iv	165	<i>nobilis</i> <i>Lea.</i>
ii	242	<i>Foremani</i> <i>Lea.</i>	iv	165	<i>carino-costata</i> <i>Lea.</i>
ii	242	<i>torquata</i> <i>Lea.</i>	iv	165	<i>abrupta</i> <i>Lea.</i>
ii	243	<i>producta</i> <i>Lea.</i>	iv	166	<i>pallescens</i> <i>Lea.</i>
ii	243	<i>curvata</i> <i>Lea.</i>	iv	166	<i>lugubris</i> <i>Lea.</i>
ii	243	<i>expansa</i> <i>Lea.</i>	iv	166	<i>spinalis</i> <i>Lea.</i>
ii	243	Anculosa incisa <i>Lea.</i>	iv	166	<i>spurca</i> <i>Lea.</i>
ii	243	<i>Foremani</i> <i>Lea.</i>	iv	166	<i>harpa</i> <i>Lea.</i>
ii	243	<i>solida</i> <i>Lea.</i>	iv	166	<i>basalis</i> <i>Lea.</i>
ii	243	<i>flammata</i> <i>Lea.</i>	iv	166	<i>auriculæformis</i> <i>Lea.</i>
ii	243	Paludina incrassata <i>Lea.</i>	iv	166	<i>pumila</i> <i>Lea.</i>
ii	243	<i>coarctata</i> <i>Lea.</i>	iv	166	<i>protea</i> <i>Lea.</i>
May-			iv	166	<i>arctata</i> <i>Lea.</i>
Aug.	1845		iv	166	<i>solida</i> <i>Lea.</i>
iv	163	Unio compressissimus	iv	166	<i>crebristriata</i> <i>Lea.</i>
iv	163	<i>pellucidus</i> <i>Lea.</i> [<i>Lea.</i>	iv	166	<i>modesta</i> <i>Lea.</i>
iv	163	<i>pernodosus</i> <i>Lea.</i>	iv	167	<i>Haleiana</i> <i>Lea.</i>
iv	163	<i>atrocostatus</i> <i>Lea.</i>	iv	167	<i>Alexandrensis</i> <i>Lea.</i>
iv	163	<i>latecostatus</i> <i>Lea.</i>	iv	167	<i>ovoidea</i> <i>Lea.</i>
iv	163	<i>hippopæus</i> <i>Lea.</i>	iv	167	<i>Anculosa squalida</i> <i>Lea.</i>
iv	163	<i>simplex</i> <i>Lea.</i>	iv	167	<i>tintinnabulum</i> <i>Lea.</i>
			iv	167	Schizostoma pagoda
			iv	167	<i>Buddii</i> <i>Lea.</i> [<i>Lea.</i>
			iv	167	<i>Babylonicum</i> <i>Lea.</i>
			iv	167	<i>constrictum</i> <i>Lea.</i>
			iv	167	<i>laciniatum</i> <i>Lea.</i>
			iv	167	<i>funiculatum</i> <i>Lea.</i>
			iv	167	Paludina Haleiana <i>Lea</i>

[Proceedings of the Amer. Phil. Society of Philad.—*continued.*]

Vol.	Pa.	Name.
July, 1831		
v	187	Remarks on Agassiz's Paper.
v	191	Remarks on Weight of Naiades.
Feb. 1832		
v	220	Letter to Agassiz.
Dec. 1832		
v	257	List of Shells described in Transactions (no description).
v	253	Fulcrum in Helix (vide Transactions).
Feb. 1832		
v	219	Agassiz. —Letter to Isaac Lea, on the Naiades, by L. AGASSIZ.

Anthony.—On the Byssus of Unio: By JOHN G. ANTHONY, Esq. With Notes by J. E. GRAY, Esq. (From Annals and Magazine of Nat. Hist. London, Sept., 1840. Vol. vi, p. 77.)

Wood, Thomson, La Hontan, &c.—In the descriptions of New England, Virginia, and other parts of North America, published in the seventeenth and eighteenth centuries, occur many notices of the Shells of the country. Of no scientific value, they are still interesting to the Conchologist. As samples, I quote the following:—

Anonymous.—A perfect description of Virginia; being a full and true Relation of the present State of the Plantation, their Health, Peace, and Plenty; the number of people, with their abundance of Cattell, Fowl, Fish, &c. &c. &c. London: Printed for Richard Wodenoth, at the Star, under Peter's Church, in Cornhill. 1649.

Page.

18 Fish are there in their kinde, above Thirty sorts:—

No. 28. Oysters.

No. 29. Cockles.

No. 30. Mussles.

Thomson.—New England's Crisis: by BENJAMIN THOMPSON, about 1676.
(The Prologue commences thus:)—

The times wherein old Pompion was a saint,
When men far'd hardly, yet without complaint,
On vilest Cates, the dainty Indian maize
Was eat with Clamp Shells, out of wooden Trays, &c.

Wood.—New England's Prospect; a true, lively, and experimental description of that part of America commonly called New England; discovering the State of that Country, both as it stands to our new-come English Planters, and to the Native Inhabitants. Laying down that which may both enrich the knowledge of the mind-travelling Reader, or benefit the future Voyager: by WILLIAM WOOD. London: Printed by John Dawson, and to be sold by John Bellamy, at his Shop, at the three Golden Lyons in Cornhill, neere the Royall Exchange. 1639.

[Chapter ix. treats of Fish, giving interesting accounts of the habits and collecting of Oysters, Clams, &c., on p. 29, 30, 31. On page 28 occurs the following:—W. G. B.]

KINDS OF SHELL-FISH.

The luscious Lobster, with the Crab-fish raw,
The Brinish Oyster, Muscle, Periwigge,
And tortoise sought by the Indian's Squaw,
Which to the fatts dance many a winter's Jigge,
To dive for Cockles, and to digge for Clams,
Whereby her lazie husband's guts she crammes.

[This valuable work was reprinted at "Boston, New England, by Thomas and John Fleet, in Cornhill; and Green and Russell, in Queen-Street, 1764," as a third edition. The above lines are on p. 38 of the reprint.—W. G. B.]

La Hontan.—New Voyages to North America, containing an account of the several Nations of that vast Continent, &c., written in French by the Baron LAHONTAN, &c. Done into English. Second edition. London, 1735, vol. i.

[This is an English translation of a work the second edition of which was published at "La Haye, 1706," the Shells being noticed in vol. ii. pp. 54 and 56.—W. G. B.]

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THE SHELL FISH.

Little Lobsters.
Crab Fish.
Cockles.
Muscles.

Shumard.—Catalogue of the Naiades of Jefferson County, Kentucky: by B. F. SHUMARD, M. D. (From the Naturalist's Journal of Agriculture, Horticulture, Education and Literature, Franklin College, Tennessee. Vol. I. No. 3. March, 1856.)

[This title was given me by Mr. Tryon. I have not been able to find the work.—W. G. B.]

Lea.—Reprint of Papers read and remarks made before the Academy of Natural Sciences of Philadelphia, in 1857-8. Philadelphia, 1858. Also of those in 1859-60. Philadelphia, 1860.

[The species have already been quoted from the Proceedings of the Acad.—W. G. B.]

Cooper.—Report on the Mollusca of the Survey: by WILLIAM COOPER. In the 2d part of the 12th volume of the Pacific Railroad Reports.

[This is the same as afterwards appeared in Cooper and Suckley's Natural History of Washington Territory, &c., which has been quoted on p. 274. The paging as there given is of the Pacific Railroad Report. In the separate work the paging of Mr. Cooper's paper commences at page one; the text being the same.—W. G. B.]

Green.—Notes of a Naturalist: by JACOB GREEN, M. D. (From Doughty's Cabinet of Natural History. Vol. III. No. 2. Philadelphia, 1834.)

[Only four numbers of the third volume of this work were ever published, and these are rarely preserved in Libraries, even those containing the first and second volumes complete.—W. G. B.]

Page.

35 *Helix pomum-Adami Green.*

Kirtland.—New locality of *Limnea megasoma* Say: by Dr. J. P. KIRTLAND. (From Annals of Science, &c., including the Transactions of the Cleveland Academy of Natural Sciences. Conducted by Hamilton A. Smith, A. M. Cleveland. Vol. II, No. 1. Jan. 1854.)

Page.

6 *Limnea megasoma Say.* Alliance, Mahoning river.

Mussey.—The Proceedings of the National Institute at Washington contain several lists of Shells presented the Society. On p. 297, of 1843, is one—Ohio Valley Shells—presented by Dr. R. D. MUSSEY. There are no descriptions. The typographical errors are too numerous to repeat.

Dewey.—List of Naiades found in Western New York, and sent to the State collection at Albany, with some chiefly from Ohio: by Prof. C. DEWEY. (From Ninth Annual Report on the Condition of the State Cabinet of Natural History. Albany, 1856.)

[No descriptions are given, but some remarks on variation, locality, &c. There are several lists of Shells in the State Cabinet published in some of the other annual Reports, such as the Twelfth, and the Catalogue of the Collection—but they are not accompanied by descriptions, and rarely by localities.—W. G. B.]

Page.		Page.	
32	Unio alatus Say. <i>Mya alata</i> Wood.		<i>U. coarctata</i> Lam. <i>rarisulcata</i> Lam.
33	radiatus Lam. <i>U. Virginiana</i> Lam. <i>Mya radiata</i> Wood.		<i>sulcidens</i> Lam. <i>glabrata</i> Lam.
33	Novi-Eboraci Lea.	35	Unio cariosus Say.
33	iris Lea.	35	rectus Lam. <i>U. praelongus</i> Barnes. <i>Mya praelonga</i> Wood.
33	rubiginosus Lea. <i>U. flavus</i> Conr.	35	rosaceus De Kay.
33	gracilis Barnes. <i>U. planus</i> Barnes. <i>fragilis</i> Swains.	36	[I omit the Ohio Shells.—W.G.B.]
33	luteolus Lam. <i>U. siliquoides</i> Barnes. <i>inflatus</i> Barnes.	36	Margaritana rugosa Lea. <i>Alasmodon rugosa</i> De Kay.
34	pressus Lea. <i>U. compressus</i> De Kay.	36	marginata Lea. <i>Alasm. marginata</i> De Kay. <i>truncata</i> Say.
34	complanatus Lea. <i>U. purpureus</i> Say. <i>Mya complanata</i> Sol. <i>rigida</i> Wood.	37	undulata Lea. <i>Alasm. undulata</i> De Kay.
34	purpurascens Lam. <i>U. rhombula</i> Lam. <i>Georgina</i> Lam. <i>carinifera</i> Lam.	37	Anodonta gigantea Lea. <i>A. grandis</i> Raf.?
		37	pavonia Lea.
		37	Footiana Lea.
		37	Lewisii Lea. <i>A. fluvialis</i> De Kay. <i>cataracta</i> Say.
		37	fragilis Lam.

Page.

	Anodonta Ferussaciana Lea.
38	<i>subcylindrica</i> Lea.
	<i>edentula</i> Lea.
	<i>Unio areolatus</i> Sw.

Page.

	Anodonta undulata Say.
	<i>Unio Pennsylvanica</i> Lam.
	<i>cylindrica</i> Lea?
	<i>Benedictensis</i> Lea.
	<i>imbecillis</i> Say.

Parker.—Description of a new species of *Helix*: by SAMUEL J. PARKER. In Proc. American Ass. Adv. Science. Vol. IV, p. 348. 1841. And

Agassiz.—Criticism on the same: by LOUIS AGASSIZ.

[I introduce these references on account of their being included in Mr. Tryon's Catalogue of American Conchological Writings. No specific name or description was given of the supposed new species.—W. G. B.]

Billings.—Notes on the Natural History of the Mountain of Montreal. (From the Canadian Naturalist and Geologist, vol. ii, No. 2. May, 1857, p. 92.) Terrestrial Mollusca, p. 97: by E. B. [E. BILLINGS.]

Page	Fig.	
98	2, 3	Helix albolabris Say.
99	4, 5	<i>alternata</i> Say.
100	6	<i>monodon</i> Rackett.

Anonymous.—Description of some of the Fresh-water Gastropoda inhabiting the Lakes and Rivers of Canada. (From the same as the last article, vol. ii, No. 3. July, 1857.)

Page. Fig.

196 1, 2	Limnæastagnalis Linn.
197 (fig.)	<i>columella</i> Say.
197 (fig.)	var. <i>chalybea</i> .
198 (fig.)	<i>macrostoma</i> Say.
198 (fig.)	<i>desidiosa</i> Say.
199 (fig.)	<i>elodes</i> Say.
201 (fig.)	<i>catascopium</i> Say.
202 (fig.)	Planorbis trivolvis S.
203 (fig.)	<i>lentus</i> Say.
204 (fig.)	<i>bicarinatus</i> Rackett.
204 (fig.)	<i>campanulatus</i> Say.
205 (fig.)	<i>armigerus</i> Say.
206 (fig.)	<i>hirsutus</i> Gould.

Page.

206 (fig.)	Planorbis deflectus Say.
207 (fig.)	<i>exacutus</i> Say.
208 (fig.)	<i>parvus</i> Say.
209 (fig.)	<i>dilatatus</i> .
209 (fig.)	Physa heterostropha
211 (fig.)	<i>ancillaria</i> Say. [Say.
211 (fig.)	<i>elongata</i> Say.
212 (fig.)	Ancylus rivularis Say.
212 (fig.)	<i>fuscus</i> Adams.
213 (fig.)	Valvata tricarinata S.
214 (fig.)	<i>pupoidea</i> Gould.
214 (fig.)	Amnicola porata Say.

Dawson.—A Week in Gaspé, p. 321. Marine Invertebrates collected in Gaspé Bay, lat. 48°, 45' N. Aug. 1858, p. 320: by J. W. D. [Dr. DAWSON.] (From same as last, vol. iii, No. 5. Oct. 1858.)

Page.		Page.	
329	<i>Loligo illecebrosa.</i>	330	<i>Saxicava rugosa.</i>
329	<i>Fusus pyramidatus (rufus).</i>	330	<i>Machæra costata.</i>
329	<i>Buccinum undatum.</i>	330	<i>Solen ensis.</i>
329	<i>trivittatum.</i>	330	<i>Tellina calcarea.</i>
329	<i>Purpura lapillus.</i>		<i>T. proxima.</i>
330	<i>Natica heros.</i>	330	<i>Grœnlandica.</i>
330	<i>Grœnlandica.</i>	330	<i>tenera.</i>
330	<i>clausa.</i>	330	<i>Aphrodite Grœnlandica.</i>
330	<i>Turritella erosa.</i>	330	<i>Cardium Islandicum.</i>
330	<i>Lacuna vineta.</i>	330	<i>pinnulatum.</i>
330	<i>Littorina palliata.</i>	330	<i>Astarte sulcata.</i>
330	<i>rudis.</i>	330	<i>Cardita borealis.</i>
330	<i>Margarita undulata.</i>	330	<i>Mytilus edulis.</i>
330	<i>helicina.</i>	330	<i>Modiola modiolus.</i>
	<i>M. arctica.</i>	330	<i>decussata.</i>
330	<i>Lottia testudinalis.</i>		<i>M. glandula.</i>
330	<i>Acmaea cæca.</i>	330	<i>Leda limatula.</i>
330	<i>Chiton marmoreus.</i>	330	<i>Pecten Islandicus.</i>
330	<i>Mya arenaria.</i>	330	<i>Magellanicus.</i>
330	<i>truncata.</i>	330	<i>Anomia ephippium.</i>
330	<i>Glycimeris siliqua.</i>	330	<i>var. aculeata.</i>

Dawson.—On the Newer Pliocene and Post-Pliocene Deposits of the Vicinity of Montreal, with notices of Fossils recently discovered in them; by J. W. DAWSON, L. L. D., &c. (From the same as last, Canadian Naturalist, vol. ii, No. 6. Dec. 1857.) And Additional Notes on the Post-Pliocene Deposits of the St. Lawrence Valley, vol. iv, No. 1. Feb. 1859.

[There are several lists of fossil Shells specified in these papers as also found recent.—W. G. B.]

Carpenter.—Note on the Mollusks and Radiates from Labrador: by P. P. CARPENTER. (From the same as last, vol. iv, part 2. April, 1859.)

Page.		Page.	
158	<i>Buccinum undatum.</i>	158	<i>Lottia (Tectura) testudi-</i>
158	<i>Trophon (Fusus) scalariforme.</i>	158	<i>Saxicava rugosa. [nalis.</i>
158	<i>Rostellaria occidentalis.</i>	158	<i>Mya arenaria.</i>
158	<i>Littorina rudis.</i>	158	<i>Solen ensis.</i>
158	<i>littorea.</i>	158	<i>Tellina Grœnlandica.</i>
	<i>L. palliata.</i>	158	<i>Mytilus edulis.</i>
158	<i>Margarita helecina.</i>	158	<i>Pecten Magellanicus.</i>
	<i>M. arctica.</i>		

Bell.—Notes on the Natural History of the Gulf of St. Lawrence, and the distribution of the Mollusca of Eastern Canada: by ROBERT BELL, Jr. (From the same as last, vol. iv, part 3, p. 197. June, 1859.)

[The localities, but no descriptions are given.—W. G. B.]

Page.		Page.	
210	<i>Fusus scalariformis.</i>	211	<i>Rostellaria occidentalis.</i>
210	<i>Islandicus.</i>	211	<i>Rissoa minuta.</i>
210	<i>tornatus.</i>	211	<i>Lacuna vineta.</i>
210	<i>decemcostatus.</i>	211	<i>Littorina palliata.</i>
210	<i>rufus.</i>	211	<i>rudis.</i>
210	<i>Bamffius.</i>	211	<i>tenebrosa.</i>
210	<i>Pleurotoma bicarinata.</i>	211	<i>Margarita cinerea.</i>
210	<i>Buccinum undatum.</i>	211	<i>undulata.</i>
211	<i>Donovani.</i>	211	<i>helicina.</i>
211	<i>Nassa trivittata.</i>	212	<i>Skenea costulata.</i>
211	<i>obsoleta.</i>	212	<i>Diadora noachina.</i>
211	<i>Purpura lapillus.</i>	212	<i>Crepidula fornicata.</i>
211	<i>Trichotropis borealis.</i>	212	<i>plana.</i>
211	<i>Velutina haliotoides.</i>	212	<i>Acmaea (Lottia) testudina-</i>
	<i>V. lavigata.</i>	212	<i>cæca. [lis.</i>
211	<i>Lamellaria perspicua.</i>	212	<i>Chiton marmoreus.</i>
211	<i>Natica heros.</i>	212	<i>Planorbis trivolvus.</i>
211	<i>clausa.</i>	212	<i>campanulatus.</i>
211	<i>triseriata.</i>	212	<i>bicarinatus.</i>
211	<i>flava?</i>	212	<i>lentus.</i>
211	<i>helicoides.</i>	212	<i>parvus.</i>

Page.		Page.	
212	<i>Physa heterostropha.</i>	216	<i>Osteodesma hyalina.</i>
213	<i>aurea.</i>	216	<i>Machæra costata.</i>
213	<i>ancillaria.</i>	216	<i>Solen ensis.</i>
213	<i>elongata.</i>	216	<i>Tellina proxima.</i>
213	<i>Limnæa megasoma.</i>		<i>T. calcarea.</i>
213	<i>jugularis.</i>	216	<i>Grœnlandica.</i>
	<i>L. stagnalis.</i>	216	<i>Macra ovalis.</i>
213	<i>caperata.</i>		<i>M. ponderosa.</i>
213	<i>umbrosa.</i>	216	<i>Mesodesma arcatum.</i>
213	<i>elodes.</i>	217	<i>Venus mercenaria.</i>
213	<i>catascopium.</i>	217	<i>gemma.</i>
213	<i>opacina.</i>	217	<i>Aphrodite Grœnlandica.</i>
213	<i>acuta.</i>	217	<i>Cardium Islandicum.</i>
213	<i>Ancylus rivularis.</i>	217	<i>Cardita borealis.</i>
213	<i>Paludina decisa.</i>	217	<i>Astarte sulcata.</i>
213	<i>Melania acuta.</i>	217	<i>Lucina flexuosa.</i>
213	<i>Niagarensis.</i>	217	<i>Lima subauriculata.</i>
213	<i>Amnicola porata.</i>	217	<i>Mytilus edulis.</i>
213	<i>Valvata tricarinata.</i>	218	<i>Modiola discors.</i>
213	<i>sincera.</i>		<i>M. discrepans.</i>
214	<i>Helix alternata.</i>	218	<i>plicatula.</i>
214	<i>albolabris.</i>	218	<i>glandula.</i>
214	<i>monodon.</i>	218	<i>pectinula.</i>
214	<i>exoleta.</i>	218	<i>nexa.</i>
214	<i>tridentata.</i>	218	<i>Leda limatula.</i>
214	<i>concava.</i>	218	<i>Nucula tenuis.</i>
214	<i>hortensis.</i>	218	<i>Pecten Magellanicus.</i>
215	<i>arborea.</i>	218	<i>Islandicus.</i>
215	<i>striatella.</i>	219	<i>Anomia ephippium.</i>
215	<i>lineata.</i>	219	<i>Terebratula psittacea.</i>
215	<i>labyrinthica.</i>		<i>Hippothyris.</i>
215	<i>pulchella.</i>	219	<i>Ascidium ———.</i>
215	<i>electrina.</i>	219	<i>Unio radiatus.</i>
215	<i>chersina.</i>	219	<i>complanatus.</i>
215	<i>Bulimus lubricus.</i>	219	<i>gibbosus.</i>
215	<i>harpa.</i>	219	<i>ventricosus.</i>
215	<i>Vitrina pellucida.</i>	219	<i>ellipsis.</i>
215	<i>Succinea ovalis.</i>	219	<i>rectus.</i>
215	<i>avara.</i>	219	<i>alatus.</i>
215	<i>obliqua.</i>	220	<i>Margaritana rugosa.</i>
216	<i>Pholas crispata.</i>	220	<i>marginata.</i>
216	<i>Saxicava rugosa.</i>	220	<i>arcuata.</i>
216	<i>Mya arenaria.</i>		<i>M. margaritifera.</i>
216	<i>truncata.</i>	220	<i>undulata.</i>
216	<i>Glycimeris siliqua.</i>	220	<i>Anodonta subcylindracea.</i>

Page.		Page.	
220	<i>Anodonta pavonia.</i>	220	<i>Cyclas similis.</i>
220	<i>fluviatilis?</i>	220	<i>orbiculata.</i>
		220	<i>dubia.</i>

Lea.—Observations on the genus *Unio*, &c.: by ISAAC LEA, LL. D., President of the Academy of Natural Sciences of Philadelphia, &c.

[Under this title are collected in seven volumes all the descriptions of Mollusca by this author. The original papers were published in the Transactions of the American Philosophical Society, and the Journal of the Academy of Natural Sciences of Philadelphia (new series.) Short diagnoses were also published in the Proceedings of the same Societies. In the following list the numerous foreign species are omitted. As great confusion has arisen regarding the synonymy of the American Naiades, owing principally to questions of priority of publication, I have given the dates of the various papers of Mr. Lea as carefully as possible. In the earlier volumes of the Philosophical Society many of Mr. Lea's papers were published anterior to the completion of the whole volume, but, as no separate dates are given, I am unable to do justice to Mr. Lea. I know of no other rule than to take the date of the title page of the complete volume, unless some other date is given to the separate parts, or with the signatures of the printers.

Any one desiring further information regarding the actual printing of the various papers is referred to Mr. Lea's "Rectification," in the Proceedings of the Philadelphia Academy.

Reference is given to the Transactions of the Philosophical Society and Journal of the Academy, as well as to the volumes of the "Observations," the numbering of the plates being the same in each.—W. G. B.]

TRANS.			OBS.		Name.	Locality.
Pa.	Pl.	Fig.	V.	Pa.		
259			i	1	Lea. —Descriptions of six new species of the genus <i>Unio</i> , embracing the anatomy of the oviduct of one of them, together with some Anatomical Observations on the Genus. (From Trans. Am. Phil. Soc. (n. s.), vol. iii, p. 259. Date of title, 1830.)	
265	iii	1	i	7	<i>Unio calceolus</i> Lea.	Ohio.
266	iii	2	i	8	<i>lanceolatus</i> Lea.	Tar river, N. C.
267	iv	3	i	9	<i>donaciformis</i> Lea.	Ohio.
268	iv	4	i	10	<i>ellipsis</i> Lea.	Ohio.
269	v	5	i	11	<i>irroratus</i> Lea.	Ohio.
272	vi	8	i	14	<i>lachrymosus</i> Lea.	Ohio.

TRANS. Vol. III, 1830.		OBS.		Name.	Locality.
Pa.	Pl. Fig.	V.	Pa.		
403		i	17	Lea. —Description of a new genus of the family of Naiades, including eight species, four of which are new; also the description of eleven new species of the Genus Unio from the rivers of the United States; with observations on some of the characters of the Naiades, &c. &c.	
On p. 415 is the following Synonymy of the species.					
415		i	29	Unio radiatus. ¹	
				<i>U. Virginiana</i> Lam.	
416		i	30	complanatus Solander.	
				<i>U. purpureus</i> Say.	
				<i>U. rarisulcata</i> Lam.	
				<i>U. coarctata</i> Lam.	
				<i>U. purpurascens</i> Lam.	
				<i>U. rhombula</i> Lam.	
				<i>U. carinifera</i> Lam.	
				<i>U. georgina</i> Lam.	
				<i>U. sulcidens</i> Lam.	
				<i>U. Caroliniana</i> Bose.	
				<i>U. fluviatilis</i> Green.	
417		i	31	ovatus Say.	
417		i	31	cariosus Say.	
				<i>U. luteola</i> Lam.	
				<i>U. crassus</i> Say.	
				<i>U. carinatus</i> Barnes.	
				<i>U. ellipticus</i> Barnes.	
417		i	31	nasutus Say.	
				<i>U. rostrata</i> Val.	
417		i	31	cylindricus Say.	
				<i>U. naviformis</i> Lam.	
417		i	31	subtentus Say.	
417		i	31	plicatus Lesueur.	
				<i>U. crassidens</i> Lam. †	
				<i>U. Peruvianus</i> Lam.	
				<i>U. rariplicata</i> Lam.	
				<i>U. undulatus</i> Barnes.	
				<i>U. crassus</i> Barnes.	
				<i>U. Dombeyana</i> Val.	
418		i	32	rectus Lam.	
				<i>U. praelongus</i> Barnes.	

¹ In these and the following pages will be found a great deal of information regarding Synonymy, which I have not been able to include in my extract.—W. G. B.

TRANS. Vol. III, 1830.		OBS.		Name.
Pa.	Pl. Fig.	V.	Pa.	
				<i>U. nasuta</i> Lam.
				<i>U. purpurata</i> Lam.
418		i	32	Unio torsus Raf.
418		i	32	mytiloides Raf.
				<i>U. undatus</i> Barnes.
418		i	32	metanever Raf.
				<i>U. nodosus</i> Barnes.
				<i>U. rugosus</i> Barnes.
418		i	32	scalenius Raf.
418		i	32	cornutus Barnes.
419		i	33	verrucosus Barnes.
				<i>U. tuberculosa</i> Val.
				<i>U. verrucosa</i> Val.
419		i	33	tuberculatus Barnes.
419		i	33	gibbosus Barnes.
				<i>U. mucronatus</i> Barnes.
419		i	33	cuneatus Barnes.
419		i	33	ventricosus Barnes.
419		i	33	siliquoides Barnes.
				<i>U. inflatus</i> Barnes.
419		i	33	triangularis Barnes.
420		i	34	parvus Barnes.
420		i	34	æsoopus Green.
420		i	34	calceolus Lea.
420		i	34	lanceolatus Lea.
420		i	34	donaciformis Lea.
420		i	34	ellipsis Lea.
420		i	34	irroratus Lea.
420		i	34	lachrymosus Lea.
420		i	34	ater Lea.
420		i	34	rubiginosus Lea.
420		i	34	heterodon Lea.
420		i	34	sulcatus Lea.
420		i	34	planulatus Lea.
420		i	34	circulus Lea.
420		i	34	multiradiatus Lea.
420		i	34	occidens Lea.
420		i	34	securis Lea.
421		i	35	iris Lea.
421		i	35	zig-zag Lea.
421		i	35	patulus Lea.

From p. 421 to 426 is a review of Lamarck's species of *Naiades*.

TRANS. Vol. III, 1830.			OBS.		Name.	Locality.
Pa.	Pl.	Fig.	V.	Pa.		
426	vii	9	i	40	Unio ater Lea.	Miss. r. bel. Natchez.
427	viii	10	i	41	rubiginosus Lea.	Ohio.
428	viii	11	i	42	heterodon Lea.	Sch. & Derby cr. Pa.
430	viii	12	i	44	sulcatus Lea.	Ohio.
431	ix	13	i	45	planulatus Lea.	Ohio.
433	ix	14	i	47	circulus Lea.	Cincinnati, Pittsb'g,
					<i>U. rotundata</i> Lam.?	[Natchez.
434	ix	15	i	48	multiradiatus Lea.	Ohio.
435	x	16	i	49	occidens Lea.	Ohio.
437	xi	17	i	51	securis Lea.	Ohio.
					<i>U. depressa</i> Raf. preoc.	
439	xi	18	i	53	iris Lea.	Ohio.
440	xii	19	i	54	zig zag Lea.	Ohio.
441	xii	20	i	55	patulus Lea.	Ohio.
442			i	56	Symphynota Lea. (n. g.)	
444	xiii	23	i	58	lævissima Lea.	Ohio.
448			i	62	alata Say.	Western waters.
					<i>Unio alatus</i> Say.	
448			i	62	complanata Barnes.	Fox riv. Wisc., O.
					<i>Alasm. complanata</i> Barn.	
450	xii	22	i	64	compressa Lea.	O., Albany.
452			i	66	gracilis .	Ohio, Wisconsin.
					<i>U. gracilis</i> Barnes.	
					<i>U. fragilis</i> Swains.	
					<i>U. planus</i> Barnes.	
453	xi	21	i	67	tenuissima Lea.	Ohio.
455			i	69	ochracea .	Sch. and Del. rivers.
					<i>U. ochraceus</i> Say.	
Vol. IV, 1834.					Name.	Locality.
63			i	73	Lea. —Observations on the Naiades, and descriptions of new species of that and other families.	
					Date of title of vol. iv, 1834.	
69	iii	1	i	79	Unio trapezoides Lea.	Lake St. Joseph, La.
70	iv	2	i	80	multiplicatus Lea.	Tenn. and Ohio rivs.
71	v	3	i	81	asperrimus Lea.	Ohio.
72	vi	4	i	82	Congaræus Lea.	Congaree river, S. C.
73	vi	5	i	83	oriens Lea.	Ohio river.
75	vi	6	i	85	brevidens Lea.	Ohio.
76	vii	7	i	86	pustulosus Lea.	Ohio and Alabama r.
77	vii	8	i	87	stapes Lea.	Alabama river.
79	vii	9	i	89	pustulatus Lea.	Ohio, Tennessee.
80	viii	10	i	90	lens Lea.	Ohio, Tennessee.
81	viii	11	i	91	anodontoides Lea.	Ala., O., Miss. rivs.

TRANS. Vol. iv, 1834.			Obs.		Name.	Locality.
Pl.	Pl.	Fig.	V.	Pl.		
82	viii	12	i	92	Unio glans Lea.	Ohio river.
83	ix	13	i	93	elegans Lea.	Ohio river.
84	ix	14	i	94	ebenus Lea.	Ohio river.
85	ix	15	i	95	asper Lea.	Alabama river.
86	x	16	i	96	fabalis Lea.	Ohio river.
87	x	17	i	97	soleniformis Lea.	Ohio river.
89	x	18	i	99	acutissimus Lea.	Alabama river.
90	xi	20	i	100	varicosus Lea.	Ohio river.
91	xi	21	i	101	castaneus Lea.	Alabama river.
92	xii	23	i	102	deoisus Lea.	Alabama river.
94	xii	24	i	104	cuprinus Lea.	Mexico.
96	xiii	26	i	106	obesus Lea.	York river, Va.
99	xiv	28	i	109	Symphynota inflata Lea.	Alabama river.
100	xv	30	i	110	Melania subularis Lea.	Niagara river.
101	xv	31	i	111	tuberculata Lea.	Tennessee river.
101	xv	32	i	111	acuta Lea.	Tennessee river.
102	xv	33	i	112	Helix Carolinensis Lea.	Cheraw, S. C.
103	xv	34	i	113	Carocolla helicoides Lea.	Nashville, Tenn.
					<i>H. palliata</i> (var. a.) Say?	
104	xv	35	i	114	spinosa Lea.	Claiborne, Ala.
104	xv	36	i	114	Valvata arenifera Lea.	Nashville, Tenn.
109	xvi	39	i	119	Unio pyramidatus Lea.	Ohio.
					<i>U. undatus</i> Barn. (var. a.)?	
110	xvi	40	i	120	trigonus Lea.	Ohio river.
111	xvi	41	i	121	formosus Lea.	Ohio river.
112	xvii	42	i	122	perplexus Lea.	Ohio river.
114	xvii	43	i	124	angustatus Lea.	Congaree and Cooper
116	xvii	44	i	126	araciformis Lea.	Tenn. r. [rivs., S. C.
117	xviii	45	i	127	subrotundus Lea.	Ohio.
118	xviii	46	i	128	subovatus Lea.	Ohio river.
119	xviii	47	i	129	pileus Lea.	Ohio river.
120	xv	29	i	130	Melania elongata Lea.	Western Tenn.
122			i	132	Lea. —Description of a new genus of the family Melaniana of Lamarck.	
122			i	132	Io Lea (n. g.)	
122	xv	37	i	132	fusiformis Lea.	Holston river.
					<i>Fusus fluviatilis</i> Say.	
Vol. v, 1837.						
23			i		Lea. —Observations, &c. continued. Date of title of vol. v., 1837.	
27			i	139	Valvata arenifera = Phrygania .	
29	ii	2	i	141	Unio capillaris Lea.	Ohio.

TRANS. Vol. v, 1837.			OBS.		Name.	Locality.
Pa.	Pl.	Fig.	V.	Pa.		
30	ii	3	i	142	<i>Unio subglobosus</i> Lea.	Bayou Teche, La.
31	ii	4	i	143	<i>capsæformis</i> Lea.	Cumberland river.
32	iii	5	i	144	<i>Ravenelianus</i> Lea.	French Br. r., N. C.
35	iii	7	i	147	<i>Haysianus</i> Lea.	Cumberland river.
36	iii	8	i	148	<i>Hildrethianus</i> Lea.	Marietta, O.
37	iii	9	i	149	<i>Schoolcraftensis</i> Lea.	Fox riv., Green Bay.
38	iv	10	i	150	<i>geometricus</i> Lea.	Bayou Teche, La.
39	iv	11	i	151	<i>Taitianus</i> Lea.	Alabama river.
41	iv	12	i	153	<i>Symphynota globosa</i> Lea.	Ohio river.
45	vi	15	i	157	<i>Anodonta Ferussaciana</i>	Ohio river.
46	vi	16	i	158	<i>incerta</i> Lea. [Lea. Ohio river.	
47	vi	17	i	159	<i>Stewartiana</i> Lea.	River Teche, La.
48	vii	18	i	160	<i>plana</i> Lea.	Bear Grass cr., Louis.
58	xix	71	i	170	<i>Paludina bimonilifera</i> Lea.	Alabama r. [ville.
61	viii	21	i	173	<i>Unio Cooperianus</i> Lea.	Alabama river.
63	ix	23	i	175	<i>Conradicus</i> Lea.	
68	x	28	i	180	<i>Sowerbyanus</i> Lea.	Tennessee. [Tenn.
70	x	29	i	182	<i>dromas</i> Lea.	Harp. and Cum. riv.,
71	x	30	i	183	<i>Troostensis</i> Lea.	Cumberland river.
72	xi	31	i	184	<i>perdix</i> Lea.	Harpeth river, Tenn.
73	xi	32	i	185	<i>pictus</i> Lea. [Lea. Harpeth river, Tenn.	
84	xix	78	i	196	<i>Achatina Vanuxemensis</i>	Mexico.
85			i	197	<i>striata</i> .	
					<i>Cochlicopea rosea</i> Fer.	
					<i>Polyphemus glans</i> Say.	
86			i	198	Lea. —Observations on Lamark's Collection of Nalades.	
					[Both foreign and American species.—W. G. B.]	
86			i	198	Unio crassissima Klein.	
					<i>U. sinuata.</i>	
87			i	199	<i>U. elongata</i> = Mya margaritifera.	
87			i	199	crassidens.	
					<i>U. cuneatus.</i>	
87			i	199	<i>U. crassidens</i> (var. a.) = trapezoides Lea.	
87			i	199	<i>U. Peruviana</i> = plicatus Les.	
87			i	199	purpurata Lom.	
					<i>U. ater</i> Lea.	
88			i	200	<i>U. ligamentina</i> = crassus Say.	
88			i	200	<i>U. obliqua</i> = undatus Barnes.	
88			i	200	<i>U. retusa</i> = torsus Raf.	
88			i	200	<i>U. rarizulcata</i> = complanatus.	
88			i	200	<i>U. coarctata</i> = complanatus.	

Trans. Vol. v, 1837.			Obs.		Name.
Pa.	Pl.	Fig.	V.	Pa.	
88			i	200	<i>U. purpurascens</i> = <i>complanatus</i> .
88			i	200	Unio radiata.
88			i	200	<i>U. brevis</i> = <i>littoralis</i> .
88			i	200	<i>U. rhombula</i> = <i>complanatus</i> .
89			i	201	<i>U. carinifera</i> <i>complanatus</i> .
89			i	201	<i>U. Georgina</i> <i>complanatus</i> .
89			i	201	<i>U. clava</i> = <i>scalenia</i> Raf. (<i>modioliformis</i> Say.)
89			i	201	recta =
					<i>U. praelongus</i> Barnes.
89			i	201	<i>U. naviformis</i> = <i>cylindricus</i> .
89			i	201	<i>U. nasuta</i> <i>gibbosus</i> .
89			i	201	<i>U. ovata</i> = <i>ovatus</i> Say.
89			i	201	<i>U. rotundatus</i> = <i>suborbiculata</i> .
89			i	201	<i>U. subglobosus</i> Lea = <i>globulus</i> Say.
89			i	201	<i>littoralis</i> = <i>U. semirugata</i> Lam.
90			i	202	<i>U. incurvus</i> Lea?
90			i	202	<i>U. semirugata</i> <i>littoralis</i> .
90			i	202	<i>U. nana</i> = <i>littoralis</i> .
90			i	202	<i>U. delodonta</i> = <i>lacteolus</i> ?
90			i	202	<i>U. sulcidens</i> = <i>complanatus</i> .
90			i	202	<i>U. rostrata</i> = <i>pictorum</i> .
90			i	202	Batava.
91			i	203	<i>U. nodulosa</i> = <i>ovata</i> .
91			i	203	<i>U. varicosa</i> = <i>Alasmodonta marginata</i> .
91			i	203	granosa.
91			i	203	depressa.
91			i	203	<i>U. Virginiana</i> = <i>radiatus</i> .
91			i	203	luteola.
					<i>U. siliquideus</i> Barnes.
91			i	203	angusta.
91			i	203	<i>U. manca</i> = <i>pictorum</i> .
92			i	204	<i>U. cariosa</i> = <i>Alasmodonta marginata</i> .
92			i	204	spuria.
92			i	204	australis.
92			i	204	<i>U. anodontina</i> = <i>marginalis</i> .
92			i	204	<i>U. suborbiculata</i> = <i>rotundata</i> .
92			i	204	Hyria avicularis = <i>Mya syrmatophora</i> .
92			i	204	corrugata.
92			i	204	Anodonta cygnea.
					<i>Mytilus cygneus</i> .
93			i	204	An. anatina.
93			i	205	<i>An. sulcata</i> = <i>An. cygnea</i> .
93			i	205	An. fragilis.

TRANS. Vol. v, 1837.		Orig.		Name.	Locality.
Pa.	Pl. Fig.	V.	Pa.		
93		i	205	<i>An. rubens.</i>	
93		i	205	<i>An. crispata.</i>	
93		i	205	<i>An. uniopsis.</i>	
93		i	205	<i>An. Pennsylvanica</i> = <i>undulata</i> Say (<i>rugosus</i> Sw.)	
93		i	205	<i>An. intermedia</i> = <i>anatina.</i>	
93		i	205	<i>An. intermedia</i> Pfr. = <i>cygnea.</i>	
93		i	205	<i>An. trapezialis</i> = <i>giganteus.</i>	
93		i	206	<i>An. exotica.</i>	
94		i	206	<i>An. glauca.</i>	
94		i	206	<i>An. sinuosa.</i>	
94		i	206	<i>An. Patagonica.</i>	
94		i	206	<i>Iridina nilotica.</i>	
				<i>I. Clappertoni</i> Denman.	
95	xiii 38	i	207	<i>Unio Shepardianus</i> Lea.	Darien, Ga.
96	xiii 39	i	208	<i>fulvus</i> Lea.	S. C.
97	xiii 40	i	209	<i>modioliformis</i> Lea.	Santee canal, S. C.
98	xiv 41	i	210	<i>Kirtlandianus</i> Lea.	Mahoning, O.
100	xiv 43	i	212	<i>Nashvillianus</i> Lea.	Cumberland r., Ohio riv., Louisville.
101	xv 44	i	213	<i>Blandingianus</i> Lea.	St. John's riv., Fla.?
102	xv 45	i	214	<i>camelus</i> Lea.	Ohio river.
103	xv 46	i	215	<i>Griffithianus</i> Lea.	S. C.
103	xvi 47	i	215	<i>confertus</i> Lea. [<i>sis</i> Lea.	Santee canal, S. C.
104	xvi 48	i	216	<i>Symphynota Benedicten-</i>	Lake Champlain.
106	xvii 50	i	218	<i>Margaritana Raveneliana</i>	French Broad and Lea. Swananoer., N. C.
112	xix 79	i	224	<i>Io spinosa</i> Lea.	Holston river, Va.
114	xix 81	i	226	<i>Lymnæa acuta</i> Lea.	Philadelphia.
114	xix 82	i	226	<i>exilis</i> Lea.	Ohio.
115	xix 83	i	227	<i>Physa elliptica</i> Lea. [<i>Lea.</i>	
115	xix 84	i	227	<i>Ampullaria Hopetonensis</i>	Hopeton, Ga.
116	xix 85	i	228	<i>Paludina Georgiana</i> Lea.	Hopeton, Ga.
117	xix 86	i	229	<i>Succinea retusa</i> Lea.	Cincinnati, O.

Vol. vi, 1839.

Lea.—Descriptions of new Fresh Water and Land
Shells, from vol. vi, part I, 1839.

1	i	1	ii	1	<i>Anodonta gigantea</i> Lea.	Port Gibson.
2	ii	2	ii	2	<i>ovata</i> Lea.	Marietta, O.
4	ii	4	ii	4	<i>Unio venustus</i> Lea.	O., Mo.
5	iii	5	ii	5	<i>Vaughanianus</i> Lea.	Camden, S. C.
6	iii	6	ii	6	<i>pulcher</i> Lea.	Nashville, Tenn.
7	iii	7	ii	7	<i>obscurus</i> Lea.	Nashville, Tenn.
8	iv	8	ii	8	<i>Fisherianus</i> Lea.	Chester river, Md.

TRANS. Vol. vi, 1839.			Obs.		Name.	Locality.
Pa.	Pl.	Fig.	V.	Pa.		
9	iv	9	ii	9	<i>Unio jejunus</i> Lea.	Cam'n, Roanoke, S. C.
10	iv	10	ii	10	<i>aretiar</i> Lea.	Cincinnati.
11	v	11	ii	11	<i>turgidus</i> Lea.	New Orleans.
12	v	12	ii	12	<i>coccineus</i> Lea.	Ohio.
13	v	13	ii	13	<i>solidus</i> Lea.	Ohio.
14	vi	14	ii	14	<i>Hydianus</i> Lea.	Louisiana.
15	vi	15	ii	15	<i>interruptus</i> Lea.	Harpeth river, Tenn.
17	xxiii	81	ii	17	<i>Paludina hyalina</i> Lea.	Poland, O.
17	xxiii	98	ii	17	<i>Melania inflata</i> Lea.	Indian creek, Va.
18	xxiii	106	ii	18	<i>Physa aurea</i> Lea.	Hot Spring, Va.
22	xxiii	104	ii	22	<i>Paludina pallida</i> Lea.	Cincinnati.
23	vii	17	ii	23	<i>Unio pumilus</i> Lea.	Black river, N. C.
24	vii	18	ii	24	<i>Tampicoensis</i> Lea.	Tampico, &c., Mex.
25	vii	19	ii	25	<i>Cumberlandicus</i> Lea.	Cumb'land r., Tenn.
26	viii	20	ii	26	<i>simus</i> Lea.	Cumb'land r., Tenn.
27	viii	21	ii	27	<i>Roanokensis</i> Lea.	Roanoke riv., N. C., Altamaha r., Ala.
28	viii	22	ii	28	<i>notatus</i> Lea.	Cumberland river.
28	ix	23	ii	28	<i>Jayensis</i> Lea.	Florida.
29	ix	24	ii	29	<i>Hopetonensis</i> Lea.	Hopeton.
30	ix	25	ii	30	<i>lugubris</i> Lea.	Hopeton.
31	x	26	ii	31	<i>Barnesianus</i> Lea.	Cumb'land r., Tenn.
32	x	27	ii	32	<i>Zeiglerianus</i> Lea.	Cumb'land r., Tenn.
33	x	28	ii	33	<i>creperus</i> Lea.	Tennessee.
34	x	29	ii	34	<i>glaber</i> Lea.	Holston riv., Tenn.
35	x	30	ii	35	<i>gibber</i> Lea.	Carryfork r., Tenn.
36	xi	31	ii	36	<i>Vanuxemensis</i> Lea.	Cumb'land r., Tenn.
37	xi	32	ii	37	<i>carbonarius</i> Lea.	Medellin riv., Mex.
38	xi	33	ii	38	<i>folliculatus</i> Lea.	Savannah river.
39	xii	34	ii	39	<i>Medellinus</i> Lea.	Medellin river, near Vera Cruz.
40	xii	35	ii	40	<i>Lecontianus</i> Lea.	Conochee river, Ga.
41	xii	36	ii	41	<i>Muhlfeldianus</i> Lea.	Cumb'land r., Tenn.
42	xiii	37	ii	42	<i>Margaritana Holstonia</i>	Holston river.
43	xiii	38	ii	43	<i>deltoidea</i> Lea. [Lea.	Cincinnati, O.
44	xiii	39	ii	44	<i>fabula</i> Lea.	Cumb'land r., Tenn.
45	xiii	40	ii	45	<i>Anodonta cylindracea</i> Lea.	Medellin r., near V.
45	xiv	41	ii	45	<i>salmonia</i> Lea.	Poland, O. [Cruz.
46	xiv	42	ii	46	<i>Wardiana</i> Lea.	Chillicothe, O.
47	xiv	43	ii	47	<i>Buchanensis</i> Lea.	Buck creek, O.
48-57	xv		ii	48-57	Anatomy of <i>Naiades</i> .	
57	xvi	50	ii	57	<i>Unio spinosus</i> Lea.	Altamaha, Ga.
61	xvii	53	ii	61	<i>pliciferus</i> Lea.	Mexico.

TRANS. Vol. vi, 1839.			OBS.		
Pa.	Pl.	Fig.	V.	Pa.	
62	xvii	55	ii	62	Unio Tappanianus <i>Lea.</i> Juniata river. <i>U. viridis</i> Conr. non. <i>Raf.</i>
64	xx	63	ii	64	Anodonta decora <i>Lea.</i> Ohio.
67	xxiii	82	ii	67	Helix Wardiana <i>Lea.</i> Ohio.
68	xxiii	83	ii	68	Planorbis lens <i>Lea.</i> Cincinnati.
69			ii	69	Note on Carocolla spinosa .
69	xix	60	ii	69	Unio graniferus <i>Lea.</i> Cincinnati.
70	xix	61	ii	70	splendidus <i>Lea.</i> Altamaha river, Ga.
71	xxii	69	ii	71	Margaritana arcula <i>Lea.</i> Altamaha river, Ga.
73	xvii	54	ii	73	Unio Dorfeuillianus <i>Lea.</i> Ohio.
76	xix	59	ii	76	Menkianus <i>Lea.</i> Harpeth river, Tenn.
77	xx	62	ii	77	Anodonta Nuttalliana <i>Lea.</i> Wahlamat riv., Or.
78	xx	64	ii	78	Wahlamatensis <i>Lea.</i> Wahlamat riv., Or.
78	xxi	65	ii	78	pavonia <i>Lea.</i> Little Beaver r., O.
79	xxi	66	ii	79	Newtoniensis <i>Lea.</i> Newtown cr., N. J.
80	xxi	67	ii	80	Oregonensis <i>Lea.</i> Wahlamat river.
87	xxiii	71	ii	87	Helix Mitchelliana <i>Lea.</i> Ohio.
87	xxiii	72	ii	87	Vancouverensis <i>Lea.</i> Fort Vancouver, Or.
88	xxiii	74	ii	88	Nuttalliana <i>Lea.</i> Fort Vancouver, Or.
89	xxiii	75	ii	89	Columbiana <i>Lea.</i> Fort Vancouver, Or.
91	xxiii	93	ii	91	Paludina virens <i>Lea.</i> Wahlamat, Or.
91	xxiii	103	ii	91	nuclœa <i>Lea.</i> Wahlamat, Or.
92	xxiii	109	ii	92	Nickliniana <i>Lea.</i> Hot Springs, Va.
92	xxiii	86	ii	92	Melania Troostiana <i>Lea.</i> Mossy creek, Tenn.
93	xxiii	90	ii	93	plicifera <i>Lea.</i> Wahlamat, Or.
93			ii	93	M. tuberculata <i>Lea</i> = Spixiana <i>Lea.</i>
94	xxiii	91	ii	94	Lymnœa solida <i>Lea.</i> Wahlamat, Or.
95	xviii	56	ii	95	Unio Rangianus <i>Lea.</i> Ohio.
96	xvi	51	ii	96	Pepinianus <i>Lea.</i> Lake Pepin, O.
97	xvi	52	ii	97	Anodonta angulata <i>Lea.</i> Lewis' river, Or.
99	xxiii	79	ii	99	Helix Californiensis <i>Lea.</i> St. Diego, U. Cal.
99	xxiii	80	ii	99	Townsendiana <i>Lea.</i> Wahlamat, Or.
100	xxiii	84	ii	100	Nickliniana <i>Lea.</i> St. Diego, U. Cal.
100	xxiii	85	ii	100	Oregonensis <i>Lea.</i> Wahlamat, Or.
101	xxiii	107	ii	101	Succinea aperta <i>Lea.</i> Bks. of Columbia r.
101	xxiii	109	ii	101	Paludina Nuttalliana <i>Lea.</i> Wahlamat, Or.
102	xxiii	94	ii	102	Lymnœa apicina <i>Lea.</i> Wahlamat, Or.
103	xxiv	113	ii	103	Unio dolabræformis <i>Lea.</i> Altamaha river.
104	xxiv	114	ii	104	Novi-eboraci <i>Lea.</i> Orleans co., N. Y.
105	xxiv	115	ii	105	Claibornensis <i>Lea.</i> Claiborne, Ala.
106	xxiv	117	ii	106	Anodonta subcylindræa Orleans co., N. Y. <i>Lea.</i>

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Pa.	Pl.	Fig.	V. Pa.	Name.	Locality.
107	xxiv	118	ii 107	Polygyra Dorfeuilliana Lea.	Ohio.
107	xxiv	119	ii 107	Troostiana Lea.	Tennessee.

113 ii 113 **Lea.**—Synopsis of the family of Naiades.

[I do not give the American species of this Synopsis, as they are included, with one or two exceptions, in the second edition of the Synopsis, which is given on p. 230.—W. G. B.]

Vol. vii, 1841.

73 **Lea.**—Vol. vii of the same contains only "On the *Patella amœna* of Say." Date of title, 1841.

73 **Patelloidea testudinalis** Norway, Greenland,
P. amœna Couth. [Lea. &c.
Patella amœna Say.
testudinalis Müll. &c.
testudinaria Müll.
tessellata Müll.
testudinaria-Groenlandica Ch.
Clealandii Sowb.
virginea Müll. (Geml.?)
clypeus Ker. (MSS.)
Lottia Antillarum Sowb.

Vol. viii, 1843.

163 **Lea.**—Description of new Fresh Water and Land Shells. Date of title, 1843.

164	v	1	iii 2	Melania Hildrethiana Lea.	Ohio r. at Marietta.
164	v	2	iii 2	castanea Lea.	Maury co., Tenn.
165	v	3	iii 3	laevigata Lea.	Claiborne, Ala.
165	v	4	iii 3	Kirtlandiana Lea.	Ind., O., &c.
165	v	5	iii 3	Taitiana Lea.	Claiborne, Ala.
166	v	6	iii 4	dubiosa Lea.	Tennessee.
166	v	7	iii 4	ebenum Lea.	Robinson co., Tenn.
167	v	8	iii 5	rufa Lea.	Mamma's cr., Tenn.
167	v	9	iii 5	fusiformis Lea.	Tennessee.
168	v	10	iii 6	claviformis Lea.	Ocoee Dist., Clinch
168	v	11	iii 6	gracilis Lea.	Tennessee. [r. Tenn.
168	v	12	iii 6	subsolida Lea.	Tennessee.
169	v	13	iii 7	Ocoeeensis Lea.	Ocoee Dist., Tenn.
169	v	14	iii 7	subcylindracea Lea.	Tennessee.
170	v	15	iii 8	sordida Lea.	Tennessee.

TRANS. Vol. viii, 1843.			Obs.		Name.	Locality.
Pa.	Pl.	Fig.	V.	Pa.		
170	v	16	iii	8	Melania regularis Lea.	Oconee Dist., Tenn.
170	v	17	iii	8	fuliginosa Lea.	Maury co., Tenn.
171	v	18	iii	9	Nickliniana Lea.	Bath co., Va.
171			iii	10	Anculosa inflata Lea.	
					<i>Melania dilatata</i> Conrad.	
					<i>Rogersii</i> Conrad.	
					<i>Anculotus carinatus</i> Anth.	
					<i>Kirtlandianus</i> Anth.	
172	v	19	iii	10	Melania viridis Lea.	Cincinnati.
172	v	20	iii	10	occidentalis Lea.	Cincinnati.
173	v	21	iii	11	Niagarensis Lea.	Niagara Falls.
174	v	22	iii	12	globula Lea.	Tennessee.
174	v	23	iii	12	altilis Lea.	Santee ca., S.C., Hav. de Grace, Md.
175	v	24	iii	13	strigosa Lea.	Holston river, Tenn.
175	v	25	iii	13	virgata Lea.	Tenn.
176	v	26	iii	14	tenebrosa Lea.	Tenn.
176	v	27	iii	14	teres Lea.	Tenn.
176	v	28	iii	14	obtusa Lea.	Tenn.
177	v	29	iii	15	Lecontiana Lea.	Georgia.
177	v	30	iii	15	corrugata Lea.	Tennessee.
178	vi	31	iii	16	monozonalis Lea.	Tennessee.
178	vi	32	iii	16	terebralis Lea.	Tennessee.
179	vi	33	iii	17	columella Lea.	Tennessee.
179	vi	34	iii	17	blanda Lea.	Tennessee.
179	vi	35	iii	17	crebri-costata Lea.	Robinson co., Tenn.
180	vi	36	iii	18	Curreyana Lea.	Barren river, Ky.
180	vi	37	iii	18	Edgariana Lea.	Cany Fork, Tenn.
181	vi	38	iii	19	decora Lea.	Tenn., Green r. Ky.
181	vi	39	iii	19	costulata Lea.	Barren r. Ky., Tenn.
182	vi	40	iii	20	nitens Lea.	Tennessee.
182	vi	41	iii	20	plicatula Lea.	Tennessee.
183	vi	42	iii	21	concinna Lea.	Tennessee.
183	vi	43	iii	21	Babylonica Lea.	Yellow sps., Green
183	vi	44	iii	21	exarata Lea.	Tennessee. [co., O.
184	vi	45	iii	22	Potosiensis Lea.	Potosi, Mo.
184	vi	46	iii	22	acuto-carinata Lea.	Tennessee.
185	vi	47	iii	23	Warderiana Lea.	Cedar creek, Va.
185	vi	48	iii	23	sulcosa Lea.	Tennessee.
186	vi	49	iii	24	striata Lea.	Tennessee.
186	vi	50	iii	24	pilula Lea.	Tennessee.
187	vi	51	iii	25	circincta Lea.	Tennessee.
187	vi	52	iii	25	venusta Lea.	Tennessee.

TRANS. Vol. viii, 1843.			OBS.		Name.	Locality.
Pa.	Pl.	Fig.	V.	Pa.		
188	vi	53	iii	26	Melania Florentiana <i>Lea.</i>	Florence, Ala.
188	vi	54	iii	26	Duttoniana <i>Lea.</i>	Tennessee.
189	vi	55	iii	27	Holstonia <i>Lea.</i>	Holston river, Tenn.
189	vi	56	iii	27	caliginosa <i>Lea.</i>	Tennessee.
190	vi	57	iii	28	nodulosa <i>Lea.</i>	Tennessee.
190	vi	58	iii	28	Cincinnatiensis <i>Lea.</i>	Cinn., Holston, Ten.
191	vii	1	iii	29	Unio exiguus <i>Lea.</i>	Columbus, Ga.
193	vii	3	iii	31	cuneolus <i>Lea.</i>	Holston river, Tenn.
194	viii	4	iii	32	Cincinnatiensis <i>Lea.</i>	Cincinnati.
195	viii	5	iii	33	Stonensis <i>Lea.</i>	Stone's river, Tenn.
195	viii	6	iii	33	Lesueurianus <i>Lea.</i>	Cany Fork and Holston river, Tenn.
196	ix	7	iii	34	dactylus <i>Lea.</i>	Cany Fork, Tenn.
197	ix	8	iii	35	biangulatus <i>Lea.</i>	Cany Fork, Tenn.
198	ix	9	iii	36	strigosus <i>Lea.</i>	Columbus, Ga.
198	x	10	iii	36	tener <i>Lea.</i>	Big Pigeon r., Tenn.
199	x	11	iii	37	Tennesseensis <i>Lea.</i>	Stone's river, Tenn.
200	x	12	iii	38	amcenus <i>Lea.</i>	Holston river, Tenn.
201	xi	13	iii	39	obtusus <i>Lea.</i>	Columbus, Ga.
201	xi	14	iii	39	fatuus <i>Lea.</i>	Holston river, Tenn.
202	xi	15	iii	40	Geddingsianus <i>Lea.</i>	Congaree riv., S. C.
203	xii	16	iii	41	striatus <i>Lea.</i>	Columbus, Ga.
204	xii	17	iii	42	tortivus <i>Lea.</i>	Columbus, Ga.
204	xii	18	iii	42	lenior <i>Lea.</i>	Holston river, Tenn.
205	xii	19	iii	43	nitens <i>Lea.</i>	Cocke co., Tenn.
206	xii	20	iii	44	lineatus <i>Lea.</i>	Columbus, Ga.
207	xiii	21	iii	45	atromarginatus <i>Lea.</i>	Columbus, Ga.
208	xiii	22	iii	46	Boykinianus <i>Lea.</i>	Columbus, Ga.
209	xiii	23	iii	47	subangulatus <i>Lea.</i>	Columbus, Ga.
209	xiv	24	iii	47	pilaris <i>Lea.</i>	French Broad and Holston r., E. Ten.
210	xiv	25	iii	48	tuberosus <i>Lea.</i>	Cany Fork and Cumberland rvs., M. Ten.
211	xiv	26	iii	49	plenus <i>Lea.</i>	Cincinnati.
212	xv	27	iii	50	Holstonensis <i>Lea.</i>	Holston river, Tenn.
213	xv	28	iii	51	Bowenianus <i>Lea.</i>	Chillicothe, O.
213	xv	29	iii	51	paulus <i>Lea.</i>	Columbus, Ga.
214	xv	30	iii	52	Edgarianus <i>Lea.</i>	Holston river, Tenn., Florence, Ala.
215	xv	31	iii	53	dolabelloides <i>Lea.</i>	Holston river, Tenn.
216	xvi	32	iii	54	Boydianus <i>Lea.</i>	Orleans co., N. Y.
217	xvi	33	iii	55	Sloatianus <i>Lea.</i>	Chattahoochee r., G.

TRANS. Vol. viii, 1843.			OBS.		Name.	Locality.
Pa.	Pl.	Fig.	V.	Pa.		
217	xvi	34	iii	55	<i>Unio incrassatus</i> Lea.	Columbus, Ga.
220	xviii	36	iii	58	<i>pusillus</i> Lea. [Lea.	Ogechee river, Ga.
223	xviii	40	iii	61	<i>Margaritana Curreyiana</i>	Stone's river, Tenn.
223	xix	41	iii	61	<i>Anodonta argentea</i> Lea.	Stone's river, Tenn.
224	xix	42	iii	62	<i>Harpethensis</i> Lea.	Harpeth's riv., Ten.
225	xix	43	iii	63	<i>ferruginea</i> Lea.	Simon's creek, Ind.
225	xx	44	iii	63	<i>Footiana</i> Lea.	Fort Winnebago.
226	xx	45	iii	64	<i>Marryattana</i> Lea.	Fort Winnebago.
227	xx	46	iii	65	<i>Couperiana</i> Lea.	Hopeton, Ga.
227					<i>incerta?</i>	Hopeton, Ga.
228	vi	59	iii	66	<i>Melania Boykiniana</i> Lea.	Columbus, Ga.
228	vi	60	iii	66	<i>catenoides</i> Lea.	Columbus, Ga.
229	vi	61	iii	67	<i>Carocolla Cumberlandiana</i>	Cumberland Mts.,
					Lea.	Jasper, Tenn.
229	vi	62	iii	67	<i>Cyclostoma Cincinnatien-</i>	Cincinnati.
					<i>se</i> Lea.	
230-233			iii	68	Notes on Anatomy of <i>Naiades</i> .	
233	xxi	47	iii	71	<i>Unio Sapotalensis</i> Lea.	Sapotal river, Mex.
234	xxi	48	iii	72	<i>Tecomatensis</i> Lea.	Tecomate riv., Mex.
235	xxi	49	iii	73	<i>Georgianus</i> Lea.	Stump creek, Ga.
236	xxii	50	iii	74	<i>Duttonianus</i> Lea.	Ogechee canal, Ga.
237	xxii	51	iii	75	<i>Bigbyensis</i> Lea.	Big Bigbee cr., Ten.
238	xxii	52	iii	76	<i>crocatus</i> Lea.	Savannah river, Ga.
239	xxiii	54	iii	77	<i>callosus</i> Lea.	Ohio canal, 12 miles below Columbus.
241	xxiv	56	iii	79	<i>Anodonta globosa</i> Lea.	Concha Lake, Tlaca- talpam, Mexico.
242	xxv	57	iii	80	<i>Unio argenteus</i> Lea.	Holston river, Tenn.
242	xxv	58	iii	80	<i>sparsus</i> Lea.	Holston river, Tenn.
243	xxv	59	iii	81	<i>regularis</i> Lea.	French Br'd r., Ten.
244	xxvi	60	iii	82	<i>mæstus</i> Lea.	French Br'd r., Ten.
245	xxvi	62	iii	83	<i>Brumbyanus</i> Lea.	Tuscaloosa, Ala.
246	xxvi	61	iii	84	<i>Dariensis</i> Lea.	Darien, Ga.
247	xxvii	63	iii	85	<i>Haleianus</i> Lea.	Miss. river, 30 miles above N. Orleans.
247	xxvii	64	iii	85	<i>Foremanianus</i> Lea.	Tuscaloosa, Ala.
248	xxvii	65	iii	86	<i>Anodonta Dunlapiana</i> Lea.	South Carolina.
					(Corrigenda.)	
					<i>Melania lævigata</i> Lea = <i>lævis</i> Lea.	
					<i>rufa</i> Lea = <i>rufescens</i> Lea.	
					<i>corrugata</i> Lea = <i>rugosa</i> Lea.	
					<i>striata</i> Lea = <i>striatula</i> Lea.	

TRANS. OBS.
Vol. ix, 1844.
V. Pa. V. Pa.

Name.

Locality.

Lea.—Continuation of Mr. Lea's paper on Fresh Water and Land Shells. Date of title of vol. ix, part 1, 1844.

ix	1	iv	1	<i>Helix Tennesseensis</i> Lea.	Cumb'land Mt., Tenn.
ix	2	iv	2	<i>Carocolla Edgariana</i> Lea.	Cumb'land Mt., Tenn.
ix	3	iv	3	<i>Succinea Wardiana</i> Lea.	Ohio.
ix	4	iv	4	<i>Totteniana</i> Lea.	Newport, R. I.
ix	4	iv	4	<i>Nuttalliana</i> Lea.	Oregon.
ix	4	iv	4	<i>aurea</i> Lea.	Springfield, O.
ix	5	iv	5	<i>Oregonensis</i> Lea.	Oregon.
ix	5	iv	5	<i>inflata</i> Lea.	South Carolina.
ix	6	iv	6	<i>Planorbis regularis</i> Lea.	United States.
ix	6	iv	6	<i>Buchanensis</i> Lea.	Cincinnati.
ix	6	iv	6	<i>bellus</i> Lea.	Tennessee.
ix	6	iv	6	<i>lens</i> Lea = <i>lenticularis</i> Lea.	
ix	7	iv	7	<i>Physa Hildrethiana</i> Lea.	Illinois.
ix	7	iv	7	<i>inflata</i> Lea.	Virginia.
ix	7	iv	7	<i>Troostiana</i> Lea.	Tennessee.
ix	8	iv	8	<i>Limnæa Philadelphica</i> Lea.	Schuylkill river.
ix	8	iv	8	<i>Griffithiana</i> Lea.	Charlotte Lake, N. Y.
ix	9	iv	9	<i>Nuttalliana</i> Lea.	Oregon.
ix	9	iv	9	<i>bullimoides</i> Lea.	Oregon.
ix	9	iv	9	<i>exigua</i> Lea.	Tennessee.
ix	9	iv	9	<i>planulata</i> Lea.	White Sulph. Spr., Va.
ix	10	iv	10	<i>fusiformis</i> Lea.	Lewistown, N. Y.
ix	10	iv	10	<i>rustica</i> Lea.	Poland, O.
ix	10	iv	10	<i>plica</i> Lea.	Tennessee.
ix	11	iv	11	<i>coarctata</i> Lea.	Newport, R. I.
ix	11	iv	11	<i>casta</i> Lea.	Poland, O.
ix	11	iv	11	<i>parva</i> Lea.	Cincinnati.
ix	11	iv	11	<i>curta</i> Lea.	Cincinnati.
ix	12	iv	12	<i>strigosa</i> Lea.	Cincinnati.
ix	12	iv	12	<i>Kirtlandiana</i> Lea.	Poland, O.
ix	13	iv	13	<i>Paludina regularis</i> Lea.	Ohio.?
ix	13	iv	13	<i>obtusa</i> Lea.	Ohio.
ix	14	iv	14	<i>Troostiana</i> Lea.	Tennessee.
ix	14	iv	14	<i>Anculosa</i> (notes on the genus.)	
ix	15	iv	15	<i>Troostiana</i> Lea.	Tennessee.
ix	15	iv	15	<i>gibbosa</i> Lea.	Tennessee.
ix	15	iv	15	<i>carinata</i> Lea.	Roanoke river.
ix	15	iv	15	<i>variabilis</i> Lea.	Roanoke river.
ix	16	iv	16	<i>Amnicola</i> (notes on the genus.)	

TRANS. Vol. ix, 1844.		Obs.	Name.	Locality.
V. Pa.	V. Pa.	V. Pa.		
ix 16	iv 16		<i>Amnicola orbiculata</i> Lea.	Springfield, O., and Cayuga Lake.
ix 16	iv 16		<i>limosa</i> Say.	
ix 16	iv 16		<i>porata</i> Say.	
ix 16	iv 16		<i>isogona</i> Say.	
			<i>Paludina pallida</i> Lea.	
ix 16	iv 16		<i>parva</i> Lea.	Springfield, O.
ix 17	iv 17		<i>Io tenebrosa</i> Lea.	Tennessee.
ix 17	iv 17		<i>Helix Mobiliana</i> Lea.	Mobile.
ix 17	iv 17		<i>minutissima</i> Lea.	Cincinnati.
ix 18	iv 18		<i>Melania turgida</i> Lea.	Holston river, Tenn.
ix 18	iv 18		<i>glabra</i> Lea.	Holston river, Tenn.
ix 18	iv 18		<i>perfusca</i> Lea.	Calf Killer cr., Tenn.
ix 19	iv 19		<i>picta</i> Lea.	Holston river, Tenn.
ix 19	iv 19		<i>impressa</i> Lea.	Coosa river, Ala.
ix 19	iv 19		<i>robusta</i> Lea.	Coosa river, Ala.
ix 20	iv 20		<i>Jayana</i> Lea.	Cany Fork, De Kalb co.,
ix 20	iv 20		<i>Anculosa rubiginosa</i> Lea.	Warrior r., Ala. [Tenn.]
ix 20	iv 20		<i>Griffithiana</i> Lea.	Coosa river, Ala.
ix 21	iv 21		<i>tuberculata</i> Lea.	Black Warrior r., Ala.
ix 21	iv 21		<i>Valvata bicarinata</i> Lea (with notes on animal and ova).	Schuylkill river.
ix 22	iv 22		<i>Paludina angulata</i> Lea.	Coosa river, Ala.
ix 23	iv 23		<i>Coosaensis</i> Lea. [Lea.]	Coosa river, Ala.
ix 23	iv 23		<i>cyclostomatiformis</i>	Coosa river, Ala.
ix 24	iv 24		Notes on genus <i>Melania</i> .	
ix 24	iv 24		<i>Melania plicatula</i> Lea = <i>M. Deshayesiana</i> Lea.	
ix 24	iv 24		<i>plicata</i> Lea = <i>M. Menkeana</i> Lea.	
ix 24	iv 24		<i>exarata</i> Lea = <i>M. arata</i> Lea.	
ix 24	iv 24		<i>Planorbis lens</i> Lea = <i>Pl. Brogniartiana</i> Lea.	
ix 25	iv 25		<i>Melania vanuxemiana</i> Lea.	Alabama.
ix 25	iv 25		<i>ovalis</i> Lea.	Alabama.
ix 25	iv 25		<i>Haysiana</i> Lea. [ma].	Alabama.
ix 25	iv 25		<i>excisa</i> Lea (Schizosto-	Alabama.
ix 26	iv 26		<i>Schizostoma</i> Lea (n. g.)	
ix 26	iv 26		<i>Melania Ordiana</i> Lea.	Alabama.
ix 26	iv 26		<i>brevis</i> Lea.	Alabama.
ix 27	iv 27		<i>oliva</i> Lea.	Alabama.
ix 27	iv 27		<i>Foremani</i> Lea.	Alabama.
ix 27	iv 27		<i>torquata</i> Lea.	Tennessee.
ix 28	iv 28		<i>producta</i> Lea.	Tennessee.
ix 28	iv 28		<i>curvata</i> Lea.	Tennessee.
ix 28	iv 28		<i>expansa</i> Lea.	Alabama.

TRANS. Vol ix, 1844.			Obs.		Name.	Locality.
Pa.	Pl.	Fig.	V.	Pa.		
28	ix	28	iv	28	Anculosa incisa <i>Lea.</i>	Alabama.
29	ix	29	iv	29	Foremani <i>Lea.</i>	Alabama.
29	ix	29	iv	29	solida <i>Lea.</i>	Alabama.
30	ix	30	iv	30	flammata <i>Lea.</i>	Alabama.
30	ix	30	iv	30	Paludina incrassata <i>Lea.</i>	Alabama.
30	ix	30	iv	30	coarctata <i>Lea.</i>	Alabama.

Vol. ix, pt. 3, 1846.

Lea.—Description of new Fresh Water and Land Shells. Date of part 3, 1846.

275	xxxix	1	iv	34	Unio amygdalum <i>Lea.</i>	Lake George, Fla.
277	xxxix	2	iv	34	Buckleyi <i>Lea.</i>	Lakes George and Munroe, Fla.
276	xxxix	3	iv	34	minor <i>Lea.</i>	Lakes George and Munroe, Fla.
277	xl	4	iv	35	fuscatus <i>Lea.</i>	Black creek, Fla.
277	xl	5	iv	35	Buddianus <i>Lea.</i>	L. George & Munroe,
278	xl	6	iv	36	trossulus <i>Lea.</i>	Lke. Munroe, Fla. [F.
279	xli	7	iv	37	occultus <i>Lea.</i>	Black cr. and Lake Munroe, Fla.
279	xli	8	iv	37	Monroensis <i>Lea.</i>	Lake Munroe, Fla.
280	xli	9	iv	38	aheneus <i>Lea.</i>	Black creek, Fla.
280	xlii	10	iv	38	neglectus <i>Lea.</i>	North Alabama.

Vol. x, pt. 1, 1847.

67

Lea.—Description of new Fresh Water and Land Shells. Date of vol. x, part 1, 1847.

67	i	1	iv	41	Unio hippopœus <i>Lea.</i>	Lake Erie.
68	i	2	iv	42	latecostatus <i>Lea.</i>	Tuscaloosa, Ala.
69	i	3	iv	43	utriculus <i>Lea.</i>	N. C.
69	ii	4	iv	43	hyalinus <i>Lea.</i>	Richmond, Va.
70	ii	5	iv	44	atrocostatus <i>Lea.</i>	Ala., La.
70	ii	6	iv	44	pellucidus <i>Lea.</i>	Chattahoochee, Ga.
71	iii	7	iv	45	tumescens <i>Lea.</i>	Alexandria, La.
71	iii	8	iv	45	pernodosus <i>Lea.</i>	N. C.
72	iii	9	iv	46	flavescens <i>Lea.</i>	Blk. Warrior r., Ala.
73	iv	10	iv	47	fulgidus <i>Lea.</i>	Alexandria, La.
73	iv	11	iv	47	symmetricus <i>Lea.</i>	Alexandria, La.
74	iv	12	iv	48	unicolor <i>Lea.</i>	Tuscaloosa, Ala.
74	v	13	iv	48	approximus <i>Lea.</i>	Alexandria, La.
75	v	14	iv	49	caperatus <i>Lea.</i>	Clinch river, Tenn.
76	v	15	iv	50	simplex <i>Lea.</i>	Blk. Warrior r., Ala.
76	vi	16	iv	50	Gouldii <i>Lea.</i>	Tuscaloosa, Ala.

TRANS. Vol. X, 1817.			OBS.		Name.	Locality.
Pa.	Pl.	Fig.	V.	Pa.		
77	vi	17	iv	51	Unio Estabrookianus <i>Lea.</i>	Clinch river, Tenn.
77	vi	18	iv	51	Binneyi <i>Lea.</i>	Southern States.
78	vii	19	iv	52	fuliginosus <i>Lea.</i>	Cobb's creek, Phila.
79	vii	20	iv	53	pallescens <i>Lea.</i>	Tuscaloosa, Ala.
79	vii	21	iv	53	caliginosus <i>Lea.</i>	Alexandria, La.
80	viii	22	iv	54	spatulatus <i>Lea.</i>	Rock river, Wisc.
81	viii	23	iv	55	compressissimus <i>Lea.</i>	Holston river, Tenn.
81	viii	24	iv	55	pulvinulus <i>Lea.</i>	Murray co., Ala.
82	viii	25	iv	56	Anodonta tetragona <i>Lea.</i>	Alexandria, La.
82	viii	26	iv	56	Margaritana minor <i>Lea.</i>	Tenn., N. C.
83	ix	27	iv	57	Melania solida <i>Lea.</i>	Tennessee.
83	ix	28	iv	57	proteus <i>Lea.</i>	Tuscaloosa, Ala.
84	ix	29	iv	58	lugubris <i>Lea.</i>	Alabama.
84	ix	30	iv	58	torta <i>Lea.</i>	Big creek, Tenn.
85	ix	31	iv	59	spurca <i>Lea.</i>	Alabama.
85	ix	32	iv	59	abrupta <i>Lea.</i>	Alabama.
85	ix	33	iv	59	basalis <i>Lea.</i>	Alabama.
86	ix	34	iv	60	modesta <i>Lea.</i>	Columbus, Ga.
86	ix	35	iv	60	Haleiana <i>Lea.</i>	Alexandria, La.
86	ix	36	iv	60	pumila <i>Lea.</i>	Tuscaloosa, Ala.
87	ix	37	iv	61	Alexandrensis <i>Lea.</i>	Alexandria, La.
87	ix	38	iv	61	ovoidea <i>Lea.</i>	Alexandria, La.
88	ix	39	iv	62	auriculæformis <i>Lea.</i>	Tuscaloosa, Ala.
88	ix	40	iv	62	carino-costata <i>Lea.</i>	Ala., Tenn.
88	ix	41	iv	62	filum <i>Lea.</i>	Alabama.
89	ix	42	iv	63	spinalis <i>Lea.</i>	Alabama.
89	ix	43	iv	63	pallescens <i>Lea.</i>	Chester Dist., S. C.
90	ix	44	iv	64	Buddii <i>Lea.</i>	Tennessee?
90	ix	45	iv	64	harpa <i>Lea.</i>	Tuscaloosa, Ala.
90	ix	46	iv	64	arctata <i>Lea.</i>	Tuscaloosa, Ala.
91	ix	47	iv	65	crebri-striata <i>Lea.</i>	Tuscaloosa, Ala.
91	ix	48	iv	65	nobilis <i>Lea.</i>	Alabama.
92	ix	49	iv	66	pernodosa <i>Lea.</i>	Florence, Ala.
92	ix	50	iv	66	Anculosa squalida <i>Lea.</i>	Tuscaloosa, Ala.
93	ix	51	iv	67	tintinnabulum <i>Lea.</i>	Tenn., Tuscal'a, Ala.
93	ix		iv	67	Schizostoma <i>Lea</i> (n. g.)	
93	ix	52	iv	67	pagoda <i>Lea.</i>	Tuscaloosa, Ala.
93	ix		iv	67	incisa <i>Lea.</i>	
93	ix		iv	67	excisa <i>Lea.</i>	
94	ix	53	iv	68	Buddii <i>Lea.</i>	Tuscaloosa, Ala.
94	ix	54	iv	68	Babylonicum <i>Lea.</i>	Tuscaloosa, Ala.
94	ix	55	iv	68	constrictum <i>Lea.</i>	Tuscaloosa, Ala.
95	ix	56	iv	69	funiculatum <i>Lea.</i>	Tuscaloosa, Ala.

TRANS. Vol. x, 1847.			OBS.		Name.	Locality.
Pa.	Pl.	Fig.	V.	Pa.		
95	ix	57	iv	69	Schizostoma laciniatum	Tuscaloosa, Ala.
					Lea.	
96	ix	58	iv	70	Paludina Haleiana	Lea. Alexandria, La.
96	ix		iv	70	Lea. —Catalogue of Recent and Fossil Melania.	

[As no synonyms, references or localities are given by Mr. Lea, I have not considered it necessary to repeat this list.—W. G. B.]

Vol. x, pt. 2, 1852.

253			v	10	Lea. —New Fresh Water and Land Shells. Date of vol. x, part 2, 1852.	
254	xii	1	v	10	Unio sordidus	Lea. Abbeville Dis., S. C.
254	xii	2	v	10	Gibbesianus	Lea. Abbeville Dis., S. C.
255	xii	3	v	11	perstriatus	Lea. Abbeville Dis., S. C.
256	xiii	4	v	12	Toumey	Lea. Abbeville Dis., S. C.
256	xiii	5	v	12	Barrattii	Lea. Abbeville Dis., S. C.
257	xiii	6	v	13	decoratus	Lea. Abbeville Dis., S. C.
258	xiv	7	v	14	rufusculus	Lea. Abbeville Dis., S. C.
258	xiv	8	v	14	Whiteianus	Lea. Savannah, Ga.
259	xiv	9	v	15	lazarus	Lea. Abbeville Dis., S. C.
260	xv	10	v	16	merus	Lea. Abbeville Dis., S. C.
260	xv	11	v	16	concavus	Lea. Abbeville Dis., S. C.
261	xv	12	v	17	ineptus	Lea. Abbeville Dis., S. C.
261	xv	13	v	17	buxeus	Lea. Abbeville Dis., S. C.
262	xv	14	v	18	pygmæus	Lea. Abbeville Dis., S. C.
263	xvi	15	v	19	fraternus	Lea. Abbeville Dis., S. C., and Columbus, Ga.
263	xvi	16	v	19	Cuvierianus	Lea. Washington co., Ga.
264	xvi	17	v	20	Forbesianus	Lea. Savannah river.
265	xvii	18	v	21	Kleinianus	Lea. Suwanee river, Fla.
265	xvii	19	v	21	satur	Lea. Alexandria, La., Lk. Calcasieu, La.
266	xvii	20	v	22	Lamarkianus	Lea. Caddo and Washitta rivers, Ark.
267	xviii	21	v	23	hebes	Lea. Oconee river, Ga.
268	xviii	22	v	24	Moussonianus	Lea. Georgia.
268	xviii	23	v	24	nigerrimus	Lea. Alexandria, La.
269	xix	24	v	25	Prevostianus	Lea. Eutowah river, Ga.
270	xix	25	v	26	Powellii	Lea. Saline river, Ark.
271	xix	26	v	27	affinis	Lea. Alexandria, La.
271	xx	27	v	27	proximus	Lea. Georgia.
272	xx	28	v	28	Reeveianus	Lea. Alexandria, La.

TRANS. Vol. x, 1853.			Oss.		Name.	Locality.
Pa.	Pl.	Fig.	V.	Pa.		
273	xx	29	v	29	Unio luridus <i>Lea.</i>	Coosawattee r., Ga.
273	xxi	30	v	29	Clarkianus <i>Lea.</i>	Williamsport, Tenn., Ala. ? Ga. ?
274	xxi	31	v	30	Floridensis <i>Lea.</i>	Chucktabachir., Fla.
275	xxi	32	v	31	succissus <i>Lea.</i>	W. Florida, New Or.
275	xxii	33	v	31	Oregonensis <i>Lea.</i>	Columbia river.
276	xxii	54	v	32	Rumphianus <i>Lea.</i>	West Georgia?
277	xxii	35	v	33	sagittiformis <i>Lea.</i>	Oconee river, Ga.
278	xxiii	36	v	34	Stewardsonii <i>Lea.</i>	Chattanooga r., Ten.
279	xxiii	37	v	35	Hanleyianus <i>Lea.</i>	Coosawattee r., Ga.
279	xxiii	38	v	35	placitus <i>Lea.</i>	Alabama.
280	xxiii	39	v	36	Troschelianus <i>Lea.</i>	Coosawattee r., Ga.
281	xxiii	40	v	37	Kienerianus <i>Lea.</i>	Coosawattee r., Ga.
283	xxiv	42	v	39	nigellus <i>Lea.</i>	Chattahoochee r., G.
283	xxiv	43	v	39	nux <i>Lea.</i>	Alabama.
284	xxiv	44	v	40	nigrinus <i>Lea.</i>	West Florida.
285	xxv	45	v	41	Anodonta denigrata <i>Lea.</i>	East Tennessee.
285	xxv	46	v	41	opaca <i>Lea.</i>	New Orleans, Little Rock, Ark.,
286	xxv	47	v	42	Californiensis <i>Lea.</i>	Rio Colorado, Cal.
288	xxvi	50	v	44	Schaefferiana <i>Lea.</i>	Horn Lake cr., Tenn.
289	xxvii	51	v	45	Linnæana <i>Lea.</i>	Lake Concordia, La.
289			v	45	edentula <i>Say?</i>	Cincinnati.
290	xxviii	52	v	46	oblita <i>Lea.</i>	Campbell co., Tenn.
290	xxviii	53	v	46	virens <i>Lea.</i>	Alexandria, La.
293	xxix	56	v	49	Arkansensis <i>Lea.</i>	Little Arkansas riv.
295			v	51	Lea. —Description of a new genus (Basistoma) of the family Melaniana.	
295			v	51	Schizostoma <i>Lea</i> (preoc.) = Schizochilus <i>Lea.</i>	
296	xxx	2	v	52	Melania perstriata <i>Lea.</i>	Coosa r., Ala., Hunts- ville, Tenn.
297	xxx	3	v	53	sculptilis <i>Lea.</i>	Tennessee.
297	xxx	4	v	53	Clarkii <i>Lea.</i>	Duck creek, Tenn.
298	xxx	5	v	54	Brumbyi <i>Lea.</i>	Coosa r., Huntsville,
298	xxx	6	v	54	oblita <i>Lea.</i>	Tennessee? [Ala.
299	xxx	7	v	55	furva <i>Lea.</i>	Coosa river, Ala.
299	xxx	8	v	55	Sellersiana <i>Lea.</i>	Cany Fork, Tenn.
300	xxx	9	v	56	oppugnata <i>Lea.</i>	Alabama river.
300	xxx	10	v	56	Saffordii <i>Lea.</i>	Lebanon, Tenn.
301	xxx	11	v	57	pinguis <i>Lea.</i>	Lebanon, Tenn.
301	xxx	12	v	57	gibbosa <i>Lea.</i>	Scioto river, O.

TRANS. Vol. x, 1853.			OBS.		Name.	Locality.
Pa.	Pl.	Fig.	V.	Pa.		
303			v	59	Lea. —Description of a new species of <i>Helix</i> from California, and a new characteristic form of certain American <i>Collimacea</i> .	
303	xxx	13	v	59	Helix Lecontii <i>Lea.</i>	San Francisco.
304					Accessory column in	
304			v	60	Carocolla spinosa <i>Lea.</i>	
304			v	60	Edgariana <i>Lea.</i>	
304			v	60	Helix hirsuta <i>Say.</i>	
304			v	60	monodon <i>Rack.</i>	
304			v	60	Leai <i>Ward.</i>	
304			v	60	leporina <i>Gould.</i>	
304			v	60	Lecontii <i>Lea.</i>	
304			v	60	Polygyra Troostiana <i>Lea.</i>	
304			v	60	Dorfeuilliana <i>Lea.</i>	

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Vol. iii, Jan. 1858.

289			vi	9	Lea. —Descriptions of Exotic Genera and species of the family Unionidæ. (From Journal Acad. Nat. Sc. Philadelphia, (n. s.), vol. iii, pt. 4. Jan. 1858.) New Fresh Water and Land Shells. Observations on the genus <i>Unio</i> , vol. vi, pt. 1, 1857.	
311	xxx	26	vi	31	Unio umbrosus <i>Lea.</i>	Medellin riv., Mex.
314	xxxi	29	vi	34	Coloradoensis <i>Lea.</i>	Rio Colorado, Texas.
315*	xxxii	30	vi	35	Poeyanus <i>Lea.</i>	R. de las Balsas, Coyucan, Mexico.

Vol. iv, Dec. 1858.

43			vi	43	Lea. —Descriptions of the Embryonic forms of thirty-eight species of Unionidæ, vol. iv, pt. 1. Dec. 1858. (Obs. vol. vi, pt. 2.)	
46	v	1	vi	46	Unio obtusus <i>Lea.</i>	
46	v	2	vi	46	anodontoides <i>Lea.</i>	
46	v	3	vi	46	multiplicatus <i>Lea.</i>	
46	v	4	vi	46	rutilans <i>Lea.</i>	
47	v	5	vi	47	penicillatus <i>Lea.</i>	
47	v	6	vi	47	securis <i>Lea.</i>	
47	v	7	vi	47	retusus <i>Lea.</i>	
47	v	8	vi	47	Pratii <i>Lea.</i>	
47	v	9	vi	47	spatulatus <i>Lea.</i>	
47	v	10	vi	47	luteolus <i>Lam.</i>	

Journ. A. N. Sz. Vol. iv, 1858.			Oss.		Name.	Locality.
Pa.	Pl.	Fig.	V.	Pa.		
47	v	11	vi	47	<i>Unio rectus</i> Lam.	
47	v	12	vi	47	<i>phaseolus</i> Hldr.	
47	v	13	vi	47	<i>occidens</i> Lea.	
47	v	14	vi	47	<i>Novi-Eboraci</i> Lea.	
47	v	15	vi	47	<i>ovatus</i> Say.	
47	v	16	vi	47	<i>Woodwardianus</i> Lea.	
47	v	17	vi	47	<i>multiradiatus</i> Lea.	
48	v	18	vi	47	<i>ligamentinus</i> Lam.	
48	v	19	vi	48	<i>triangularis</i> Barnes.	
48	v	20	vi	48	<i>radiatus</i> Lam.	
48	v	21	vi	48	<i>perplexus</i> Lea.	
48	v	22	vi	48	<i>undulatus</i> Barnes.	
48	v	23	vi	48	<i>pressus</i> Lea.	
48	v	24	vi	48	<i>laevissimus</i> Lea.	
48	v	25	vi	48	<i>alatus</i> Say.	
48	v	26	vi	48	<i>Margaritana rugosa</i> Lea.	
49	v	27	vi	49	<i>marginata</i> Lea.	
49	v	28	vi	49	<i>triangulata</i> Lea.	
49	v	29	vi	49	<i>complanata</i> Lea.	
49	v	30	vi	49	<i>deltoides</i> Lea.	
49	v	31	vi	49	<i>Hildrethiana</i> Lea.	
49	v	32	vi	49	<i>Anodonta Lewisii</i> Lea.	
49	v	33	vi	49	<i>ovata</i> Lea.	
49	v	34	vi	49	<i>decora</i> Lea.	
50	v	35	vi	50	<i>Ferussaciana</i> Lea.	
50	v	36	vi	50	<i>imbecilis</i> Say.	
50	v	37	vi	50	<i>edentula</i> Lea.	
50	v	38	vi	50	<i>undulata</i> Say.	
50	v	39	vi	50	<i>Unio subangulatus</i> Lea.	

[The localities of the specimens from which the dissections are made are given also.—W. G. B.]

51			vi	51	<i>Lea.</i> —New Unionidæ of the United States.	
51	vi	34	vi	51	<i>Unio Abbevillensis</i> Lea.	Abbeville Dis., S. C.
52	vi	35	vi	52	<i>Jamesianus</i> Lea.	Jackson, Miss.
53	vi	36	vi	53	<i>subgibbosus</i> Lea.	Oostanula and Etowa rivers, Ga.
54	vii	37	vi	54	<i>Elliotii</i> Lea.	Othcaloga cr., Ga.
56	viii	38	vi	56	<i>gracillior</i> Lea.	Buckhead creek, To- besaufke cr., Ga.
57	viii	39	vi	57	<i>pullatus</i> Lea.	Columbus, Ga.
58	viii	40	vi	58	<i>favosus</i> Lea.	Othcaloga cr., Ga.

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Obs.

Pa.	Pl.	Fig.	V. Pa.	Name.	Locality.
59	ix	41	vi 59	<i>Unio rutilans</i> Lea.	Othcalooga cr. Ga., and Columbus.
60	ix	42	vi 60	<i>errans</i> Lea.	Tobesaufke cr., Ga.
61	ix	43	vi 61	<i>vicinus</i> Lea.	Swift creek, Ga.
62	x	44	vi 62	<i>subellipsis</i> Lea.	Columbus, Ga.
63	x	45	vi 63	<i>geminus</i> Lea.	Buckhead creek, Ga.
64	x	46	vi 64	<i>rostriformis</i> Lea.	Swift creek, Ga.
65	xi	47	vi 65	<i>Blandianus</i> Lea.	Othcalooga cr., Ga.
66	xii	48	vi 66	<i>concestator</i> Lea.	Columbus, Ga.
67	xii	49	vi 67	<i>extensus</i> Lea.	Dry creek, Ga.
69	xii	50	vi 69	<i>pyriformis</i> Lea.	Columbus, Ga.
70	xiii	51	vi 70	<i>rubellinus</i> Lea.	Othcalooga cr. Ga., and Ala. [and Ala.
71	xiii	52	vi 71	<i>excavatus</i> Lea.	Othcalooga cr. Ga.,
72	xiii	53	vi 72	<i>umbrans</i> Lea.	Othcalooga cr. Ga.
74	xiv	54	vi 74	<i>Othcaloogensis</i> Lea.	Othcalooga cr. Ga., and Ala.
75	xiv	55	vi 75	<i>Columbensis</i> Lea.	Columbus, Ga.
76	xiv	56	vi 76	<i>apicinus</i> Lea.	Othcalooga cr., Ga.
77	xv	57	vi 77	<i>intercedens</i> Lea.	Columbus, Ga.
78	xv	58	vi 78	<i>pinguis</i> Lea.	St. Peter's r., U. Miss.
79	xv	59	vi 79	<i>fallax</i> Lea.	Columbus, Ga., Fr. Broad riv., Tenn.
80	xvi	60	vi 80	<i>virens</i> Lea.	Georgia.
81	xvi	61	vi 81	<i>Savannahensis</i> Lea.	Ga., Santee can. S. C., Sugar creek, N. C.,
82	xvi	62	vi 82	<i>sublatus</i> Lea.	Uchee Bar, Ga.
83	xvii	63	vi 83	<i>tenebricus</i> Lea.	Etowah river, Ga.
84	xvii	64	vi 84	<i>obnubilus</i> Lea.	Buckhead cr., Ga.
85	xvii	65	vi 85	<i>rufus</i> Lea.	Etowah river, Ga.
86	xviii	66	vi 86	<i>opacus</i> Lea.	Buckhead cr., Ga.
87	xviii	67	vi 87	<i>viridicatus</i> Lea.	Buckhead cr., Ga.
88	xviii	68	vi 88	<i>fumatus</i> Lea.	Columbus, Ga., Hos- paliga cr., Ala.
89	xix	69	vi 89	<i>æquatus</i> Lea.	Buckhead cr., Ga.
90	xix	70	vi 90	<i>subflavus</i> Lea.	Walnut creek, Ga.
91	xix	71	vi 91	<i>similis</i> Lea.	Buckhead cr., Ga.
92	xx	72	vi 92	<i>aquilus</i> Lea.	Flint and Chatta- hoochee rivs., Ga.
93	xx	73	vi 93	<i>Maconensis</i> Lea.	Flint river, Ga.
94	xx	74	vi 94	<i>naviculoides</i> Lea.	Buckhead cr. and Macon, Ga.

Journ. A. N. Sc. Vol. iv, 1859.			Obs.		
Pa.	Pl.	Fig.	V. Pa.	Name.	Locality.
Sept. 1859.					
191			vii 9	Lea. —The same continued. (Journ. A. N. Sc. Philada., vol. iv, pt. 2. Sept. 1859. Obs. vol. vii, pt. 1.)	
191	xxi	75	vii 9	Unio bulbosus Lea.	Flint river, Ga.
192	xxi	76	vii 10	Plantii Lea.	Flint river, Ga.
194	xxi	77	vii 12	sudus Lea.	Columbus & Macon,
195	xxii	78	vii 13	tetricus Lea.	Flint river, Ga. [Ga.
196	xxii	79	vii 14	subniger Lea.	Flint river, Ga.
197	xxii	80	vii 15	obfuscus Lea.	Flint river, Ga.
198	xxiii	81	vii 16	purpurellus Lea.	Flint river, Ga.
199	{ xxiii 82 xxix 103 }		vii 17	Woodwardianus Lea.	Cass co., Ga.
200	xxiii	83	vii 18	denigratus Lea.	Columbus, Ga.
201	xxiii	84	vii 19	radians Lea.	Othalooga cr., Ga.
203	xxiii	85	vii 21	penicillatus Lea.	Chattahoochee and Flint rivers.
204	xxiv	86	vii 22	modicus Lea.	Chattahoochee r. Ga.
205	xxiv	87	vii 23	Boswellensis Lea.	Chattahoochee r. Ga.
206	xxiv	88 88 ^a	vii 24	Prattii Lea.	Chattahoochee r. Ga.
208	xxv	89	vii 26	spissus Lea.	Satilla river, Ga.
209	xxv	90	vii 27	Chattanoogaensis Lea.	Chattanooga r., Ten., Etowah, Coosawat- te, Oostenaula riv.
210	xxv	91	vii 28	Downiei Lea.	Buck Lake, Ga.
211	xxvi	92	vii 29	Hazlehurstianus Lea.	Satilla river, Ga.
212	xxvi	93	vii 30	Neislerii Lea.	Flint r., Macon, Ga.
214	xxvi	94	vii 32	Postellii Lea.	Randall's and Car- ter's creek, Ga.
215	xxvii	95	vii 33	Burkensis Lea.	Buckhead cr., Ga.
216	xxvii	96	vii 34	Satillaensis.	Satilla river, Ga.
217	xxvii	97	vii 35	corvus Lea.	Buckhead creek and Ogeechee riv., Ga.
218	xxviii	98	vii 36	compactus Lea.	Etowah and Conna- sauga rivs., Ga.
219	xxviii	100	vii 37	fibuloides Lea.	Connasauga r., Ga.
220	xxix	101 101 ^a	vii 38	phaseolus Hldr.	Anatomy.
221	xxix	102 102 ^a	vii 39	parvus Barnes.	Anatomy.
222	xxx	105	vii 40	multiplicatus Lea.	Anatomy.
				<i>U. heros</i> Say?	
				<i>U. undulatus</i> Say.	
223	xxx	106	vii 41	stramineus Conr.	Anatomy.

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Oss.

Pa.	Pl.	Fig.	V. Pa.	Name.	Locality.
224 xxx	107	vii 42		Unio ventricosus <i>Barnes</i> .	Anatomy.
224 xxix	104	vii 42		Margaritana margaritifera	
				<i>Linn.</i>	Anatomy.
				<i>Mya margaritifera</i> <i>Linn.</i>	
				<i>Margaritana fluviatilis</i> <i>Sch.</i>	
				<i>Unio elongata</i> <i>Lam.</i>	
				<i>Alasm. falcata</i> <i>Gould.</i>	
226 xxxi	108	vii 44		Elliotii <i>Lea.</i>	Chattahoochee r. Ga.
227 xxxi	110	vii 45		Etowahensis <i>Lea.</i>	Tenn., Etowaha, Ga.
228 xxxii	111	vii 46		triangulata <i>Lea.</i>	Ga. and S. C.
229 xxxii	113	vii 47		Connasaugaensis <i>Lea.</i>	Connasauga r. Ga., Tennessee.
230 xxviii	99	vii 48		Anodonta Dariensis <i>Lea.</i>	Hopeton, &c. Ga.
231 xxxi	109	vii 49		Gesnerii <i>Lea.</i>	Uphaupsee cr., Ala.
232 xxxii	112	vii 50		Hallenbeckii <i>Lea.</i>	Uphaupsee cr., Ga.

Haldeman.—Description of *Unio abacoides*, a new species:
by S. S. HALDEMAN. (From American Journal of Science,
(n. s.) vol. ii, p. 274. Sept. 1846.)

Page.

274 **Unio abacoides** *Haldeman.* Eastern Tennessee.

Anthony.—Descriptions of Shells on the cover of Nos. 3 and
4 of Haldeman's *Limnæidæ*. (Vide pp. 67, 68.)

Desor.—(From Proc. Bost. Soc. of Nat. Hist., iii, 75. Nov.
1848.)

[In quoting from the Boston Proceedings the following were overlooked.
—W. G. B.]

Vol. Pa.

iii	75	Remarks on Salpa .	
iii	75	Salpa Caboti <i>Desor.</i>	Nantucket.
iii	76	Pelagia quinquecirrha <i>Desor.</i>	Nantucket.

Carpenter.—Catalogue of the collection of Mazatlan Shells in the British Museum, collected by Frederick Reigen, described by PHILIP P. CARPENTER. London, 1857.¹

July, 1853.

CLASS **BRYOZOA.**

[Omitted, according to the general plan of my work, vid. Preface.—W. G. B.]

CLASS **TUNICATA.**

(None.)

CLASS **PALLIOBRANCHIATA.**

Page.

- 7 **Discina Cumingii** Brod.
Orbicula Cumingii Brod.

CLASS **LAMELLIBRANCHIATA.**

Page.

- 8 **Pholadidea melanura** Sowb.
(Pholas.)
9 **curta?** Sowb. (Pholas.)
9 **Parapholas calva** Gray.
Pholas calva Sowb.
12 **acuminata** Sowb.
Pholas acuminata.
Aug. 1853.
13 **Martesia intercalata** Carp.
13 ———?
14 **Gastrochaena truncata** Sowb.
15 **ovata** Sowb.
16 **Saxicava arctica** Linn.
? S. sordida Sowb.
? S. Cordieri Gould.
S. solida.
S. distorta Say.
S. pholadis.
17 **Petricola robusta** Sowb.
? P. bulbosa Gould.
19 **ventricosa** Desh.
P. denticulata Sowb.
19 ——— (sp. ined.)

Page.

- 20 **Rupellaria lingua-felis** Carp.
20 **exarata** Carp.
21 ——— (sp. ined.)
21 **Corbula bicarinata** Sowb.
22 **biradiata** Sowb.
22 **pustulosa** Carp.
23 **? ovulata** Sowb.
23 ——— (sp. ined.)
24 **Sphaenia fragilis** Carp.
25 **Tyleria fragilis** Adams.
26 **Lyonsia picta** Sowb.
? L. cuneata Orb.
? Anatina cuneata Gray.
27 **Solecurtus affinis** C. B. Ad.
27 **politus** Carp.
27 **violascens** Carp.
(S. W. Mexico.)
28 ——— (sp. ined.)
28 **Semele proxima** C. B. Ad.
28 **? venusta** A. Adams.
Amphidesma venusta Rve.
29 **Cumingia lamellosa** Sowb.
Lavignon lamellosa Orb.

¹ This is the date of the title. Each signature bears a date, commencing with July, 1853.

[Carpenter, Mazatlan Shells.]

Page.		Page.	
30	Cumingia trigonularis Sowb. <i>Lavignon triangularis</i> Gr.	42	? Iphigenia lævigata . <i>Capsa lævigata</i> .
30	Californica Conrad.	43	Donax carinatus Hanley.
31	— (sp. ined.) [Desh.]	43	culminatus Carp.
31	Sanguinolaria purpurea ? <i>Tellina miniata</i> Gould.	44	transversus Sowb.
32	Tellina rufescens Ch. <i>T. operculata</i> Gmel. <i>cruenta</i> Sol. <i>opercularis</i> Sowb.	44	assimilis Hanley.
32	Broderipii Desh.	44	punctato-striatus Hanley. <i>D. radiatus</i> Val. ? <i>flexuosus</i> Gould.
33	Mazatlanica Desh.	46	punctato-striatus var. <i>cælatus</i> .
33	Dombeyi Hanley.	47	Conradi Desh. <i>D. contusus</i> Rve. <i>Californicus</i> Conrad. <i>culter</i> Hanley.
34	felix Hanley.	50	navicula Hanley.
34	straminea Desh.	50	Mactra exoleta Gr.
34	donacilla Carp.	51	(<i>spissula</i>) fragilis Chemn. <i>M. ovalina</i> Lam. <i>Brasiliana</i> Lam. <i>oblonga</i> Say.
35	punicea Born. <i>Donax Martinicensis</i> Lam. <i>T. alternata</i> Sowb. <i>angulosa</i> Gmel. <i>simulans</i> C. B. Adams. ? <i>striata</i> Chemn.	52	angulata Gr. (<i>Mulinia</i> .)
36	? Cumingii Hanley.	52	Gnathodon trigona Pet. (<i>Rangia</i> .) [Carp.]
36	? eburnea Hanley.	54	? Clementia gracillima
36	? regularis Carp.	54	Trigona radiata Sowb. <i>Cytherea radiata</i> . <i>Venus Solangensis</i> . <i>T. Byronensis</i> Gr. <i>Cytherea corbicula</i> Mke. ? <i>semifulva</i> Mke. ? <i>gracilior</i> Sowb. ? <i>Hindsii</i> Hanley. ? <i>intermedia</i> Sow.
Sept. 1855.		57	humilis Carp.
37	lamellata Carp.	58	argentina Sowb. (<i>Cytherea</i>).
37	? ? puella C. B. Adams.	58	? ? crassatelloides Conr. <i>Cytherea crassatelloides</i> Hanley.
37	? ? delicatula Desh.	59	planulata Br. and Sowb. <i>Cytherea planulata</i> . <i>Venus planulata</i> . <i>Cytherea undulata</i> Sowb.
38	brevirostris Desh.		
38	? denticulata Desh.		
38	— (sp. ined.)		
38	— (sp. ined.)		
39	Burneti Br. and Sowb. <i>Lucina cristata</i> Recl.		
39	Strigilla (Tellina) carnaria L. <i>Cardium carneosum</i> D. Cos. <i>Lucina carnaria</i> Lam. ? <i>S. miniata</i> Gould.		
41	? lenticula Phil. <i>Tellina lenticula</i> Phil.		
41	— (sp. ined.)		
42	Iphigenia altior Sowb. (<i>Capsa</i> .)		

[Carpenter, Mazatlan Shells.]

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|-------|--------------------------------------|------------|--|
| | <i>Donax Lessoni</i> Desh. | | <i>Cytherea brevispinosa</i> Sow. |
| | ? <i>Cytherea mactroides</i> Lam. | 69 | Dione circinata Born. |
| 60 | Dosinia? <i>ponderosa</i> Gr. | | <i>Venus circinata</i> Born. |
| | <i>Artemis ponderosa</i> Gr. | | <i>Guineensis</i> Gmel. |
| | <i>Cytherea gigantea</i> Phil. | | <i>Cytherea Guineensis</i> Lam. |
| | <i>Venus cycloides</i> . | | <i>alternata</i> Br. |
| 61 | Annæ Carp. | | <i>circinata</i> Sowb. |
| 61 | Dunkeri Phil. | 69 | concinna Sowb. |
| | <i>Cytherea Dunkeri</i> Phil. | | <i>Cytherea concinna</i> . |
| | <i>Artemis Dunkeri</i> Rve. | 70 | Cytherea petechialis Lam. |
| | <i>simplex</i> Hanley. | | <i>Meretrix petechialis</i> Enc. M. |
| | <i>D. simplex</i> Desh. | 71 | Venus (Chione) gnidia Br. |
| | <i>Cytherea Pacifica</i> Trosch. | 72 | amathusia Phil. [and Sowb. |
| 62 | Cyclina subquadrata Hanl. | | <i>Chione gnidia</i> (var.) Desh. |
| | <i>Artemis subquadrata</i> . | | ? <i>V. cancellata</i> Mke. |
| | <i>Lucinopsis subquadrata</i> . | | ? <i>succincta</i> Val. |
| | <i>Artemis saccata</i> Gould. | Oct. 1855. | |
| | <i>Cyclina saccata</i> Desh. | 73 | —— (sp. ined.) |
| 63 | Dione aurantia Hanley. | 74 | (? Chione) <i>distans</i> Phil. |
| | <i>Cytherea aurantia</i> Hanley. | 74 | (Chione) <i>crenifera</i> Sowb. |
| | <i>Chione aurantia</i> Gr. | | ? <i>Venus elevata</i> Say. |
| | <i>Cytherea aurantiaca</i> Sowb. | | ? <i>radiata</i> Ch. |
| 64 | chionæa Mke. | | <i>portésiana</i> Orb. |
| | <i>Cytherea chionæa</i> Mke. | 75 | ? <i>undatella</i> Sowb. |
| | <i>squalida</i> Sowb. | 75 | Columbiensis Sowb. |
| | <i>Chione squalida</i> Gr. | 76 | —— (sp. ined.) |
| | <i>Venus squalida</i> . | 76 | Tapes histrionica Br. & Sow. |
| | <i>D. squalida</i> Desh. | | <i>Venus histrionica</i> . |
| | <i>Cytherea biradiata</i> Gr. | | <i>Chione histrionica</i> Desh. |
| | <i>chione</i> (pars.) Sb. | 77 | grata Say. |
| | ? <i>elegans</i> Koch. | | <i>Venus grata</i> Say. |
| 66 | rosea Br. and Sowb. | | <i>Chione grata</i> Desh. |
| | <i>Cytherea rosea</i> . | | <i>Venus tricolor</i> Sowb. |
| | <i>D. rosea</i> Desh. | | <i>discors</i> Sowb. |
| | <i>Cytherea lepida</i> Chenu. | | <i>Tapes discors</i> Sowb. |
| 67 | lupinaria Less. | | <i>Chione discors</i> Gr. |
| | <i>Cytherea lupinaria</i> Less. | | ? <i>Venus Entobapta</i> Jonas. |
| | <i>Venus lupinaria</i> . | | ? <i>neglecta</i> Phil. |
| | <i>Chione lupinaria</i> Gr. | 78 | squamosa Carp. [Sowb. |
| | <i>Cytherea</i> (var.) Brod. | 79 | Anomalocardia subrugosa |
| | <i>semilamellosa</i> Gd. | | <i>Venus subrugosa</i> Sowb. |
| 68 | ? vulnerata Brod. | | <i>Cytherea subsulcata</i> Mke. |
| | <i>Cytherea vulnerata</i> . | 80 | subimbricata Sowb. |
| 69 | ? brevispinosa Sowb. | | <i>Venus subimbricata</i> Sowb. |

[Carpenter, Mazatlan Shells.]

Page.		Page.	
81	<i>Circe margarita</i> Carp.	101	? <i>Lucina eburnea</i> Rve.
82	<i>subtrigona</i> Carp.	101	—— (sp. ined.)
83	<i>Gouldia pacifica</i> C. B. Ad.	101	? <i>Fimbria</i> —— (sp. ined.)
83	<i>varians</i> Carp.	102	<i>Diplodonta semiaspera</i> ?
84	<i>Cardita Californica</i> Desh.		Phil.
	<i>C. affinis</i> Mke.		? <i>Lucina orbella</i> Gould.
Nov. 1855.			? <i>semireticulata</i> .
85	<i>Venericardia</i> —— (sp. ined.)		? <i>cæolata</i> Rve.
86	<i>Trapezium</i> —— (sp. ined.)	103	? <i>semiaspera</i> .
87	<i>Chama frondosa</i> Br.		var. <i>discrepans</i> .
	var. <i>Mexicana</i> .	103	<i>obliqua</i> Phil.
89	var. <i>fornicata</i> .	104	? <i>serricata</i> Rve.
90	<i>spinosa</i> Br.		<i>Lucina serricata</i> Rve.
90	? <i>exogyra</i> Conrad.		<i>Cyrenoides serricata</i> Carp.
91	<i>Cardium</i> (<i>Lævicardium</i>)	105	<i>Kellia suborbicularis</i> Mont.
	<i>elatum</i> Sowb.		<i>Mya suborbicularis</i> Mont.
91	<i>procerum</i> Sowb.		<i>Tellina suborbicularis</i> Tart.
93	? <i>senticosum</i> Sowb.		<i>Petricola suborbicularis</i> Gr.
	<i>C. rastrum</i> Rve.		<i>Tellimya suborbicularis</i> Br.
	? <i>C. muricatum</i> Mke.		<i>tenuis</i> Brown.
93	—— (sp. ined. a.)		<i>lactea</i> Brown.
94	—— (sp. ined. b.)		<i>Erycina Geoffroyi</i> Payr.
94	—— (sp. ined. c.)		<i>Amphidesma physoides</i> Lam.
94	—— (sp. ined. d.)		<i>Bornia inflata</i> Phil.
94	—— (sp. ined. e.)	108	<i>Lasea</i> ? <i>rubra</i> Mont.
94	—— (sp. ined. f.)		<i>Cardium rubrum</i> Mont.
94	<i>alabastrum</i> Carp.		<i>Tellina rubra</i> Tart.
95	<i>graniferum</i> Br. and Sowb.		<i>Kellia rubra</i> Tart.
95	—— (sp. ined. g.)		<i>Poronia rubra</i> Récl.
96	<i>Lucina</i> (<i>Codakia</i>) <i>tigerina</i>		<i>Petricola rubra</i> Gray.
	<i>Venustigerina</i> Linn. [Linn.]		<i>Bornia semilunum</i> Phil.
	<i>Cytherea tigerina</i> Lam.		<i>Erycina violacea</i> Scacchi.
97	?? <i>punctata</i> Linn.		<i>Cycladina Adansonii</i> Cané.
	<i>Venus punctata</i> Linn.		<i>Cyclas australis</i> Lam.
	<i>Cytherea punctata</i> Lam.		<i>Amphidesma nucleola</i> Lam.
97	? <i>annulata</i> Rve.		<i>Autonoë rubra</i> Leach.
98	? <i>muricata</i> Chemn.	Dec. 1855.	
98	<i>excavata</i> Carp.	109	<i>trigonalis</i> Carp.
98	—— (sp. ined.)	109	? <i>oblonga</i> Carp.
98	<i>pectinata</i> Carp.	110	<i>Lepton Clementinum</i> Carp.
99	<i>cancellaris</i> Phil.	111	<i>Dionæum</i> Carp.
99	<i>Mazatlanica</i> Carp.	111	<i>umbonatum</i> Carp.
100	<i>prolongata</i> Carp.	111	(<i>placunoideum</i> C. W. Ind.)
101	—— (sp. ined.)	112	<i>Pythina sublævis</i> Carp.

[Carpenter, Mazatlan Shells.]

- | Page. | | Page. | |
|------------|---|------------|-----------------------------------|
| 113 | Montacuta elliptica Carp. | 129 | Lithophagus aristatus |
| 113 | <i>subquadrata</i> Carp. | | (var.) <i>gracilior</i> . |
| 114 | — (sp. ined.) | 129 | var. <i>tumidior</i> . |
| 114 | Cyrena olivacea Carp. [Phil. | 129 | <i>cinnamomeus</i> Chemn. |
| | <i>C. Fontainei</i> Desh. nec | | <i>Mytilus cinnamomeus</i> Ch. |
| 115 | Mexicana Br. and Sowb. | | <i>Modiola cinnamomea</i> Lam. |
| | <i>C. varians</i> Carp. | | <i>Lithodomus cinnamomeus</i> . |
| | <i>altilis</i> Gould. | | <i>Lithophagus cinnamomeus</i> |
| | <i>fragilis</i> Desh. | | Dunk. |
| | ? <i>Floridana</i> Conrad. | 130 | Leiosolenus spatiosus Car. |
| 117 | Anodonta ciconia Gould. | 131 | — (sp. ined.) |
| | <i>A. sinuata</i> Swainson. | 132 | Arca grandis Br. and Sowb. |
| 118 | Mytilus palliopunctatus | Feb. 1856. | |
| 118 | <i>multiformis</i> Dunk. [Dunk. | 134 | <i>multicostata</i> Sowb. |
| 120 | Septifer Cumingii Recluz. | 134 | ? <i>labiata</i> Sowb. |
| 121 | Modiola capax Conrad. | 134 | <i>bifrons</i> Carp. |
| | <i>M. spinifera</i> Carp. | 135 | <i>tuberculosa</i> Sowb. |
| | ? <i>Mytilus spatula</i> Mke? | 136 | <i>reversa</i> Gray. |
| Jan. 1856. | | | <i>A. hemicardium</i> Koch. |
| 121 | Brasiliensis Ch. | 136 | <i>brevifrons</i> Sowb. |
| | <i>Mytilus</i> mod. <i>Brasiliensis</i> | 137 | <i>emarginata</i> Sowb. |
| | <i>bicolor</i> Brug. [Ch. | 137 | — (sp. ined.) |
| | <i>Guyanensis</i> Desh. | 138 | Byssosarca pacifica Sowb. |
| | <i>M. Guyanensis</i> Desh. | | <i>Arca pacifica</i> Rve. |
| | <i>semifusca</i> Sowb. | 139 | <i>mutabilis</i> Sowb. |
| 122 | var. <i>mutabilis</i> . | | <i>Arca mutabilis</i> Rve. |
| 123 | Crenella coarctata Dunk. | 140 | <i>fusca</i> Brug. |
| 124 | Lithophagus attenuatus | | <i>Arca fusca</i> Brug. |
| | Desh. | | <i>barbata</i> (var.) Gmel. |
| | <i>Modiola attenuata</i> Desh. | | <i>bicolorata</i> Chemn. |
| | <i>Lithodomus caudigerus</i> | 140 | <i>vespertilio</i> Carp. |
| | (var.) Sowb. | 141 | <i>illota</i> Sowb. |
| 124 | calyculatus Carp. | | <i>Arca illota</i> Rve. |
| 125 | plumula Hanley. | 141 | <i>gradata</i> Br. and Sowb. |
| | <i>Modiola plumula</i> Hanley. | | <i>Arca gradata</i> . |
| 126 | aristatus Sol. | | <i>squamosa</i> Lam. |
| | <i>Mytilus aristatus</i> Dillw. | | <i>Domingensis</i> Lam. |
| | <i>Lithodomus aristatus</i> Forb. | | <i>clathrata</i> DeFr. |
| | and Hanley. | 143 | <i>solida</i> Sowb. |
| | <i>Myt. lith. striatus</i> J. Sowb. | | <i>Arca solida</i> Rve. |
| | <i>Modiola caudigera</i> Lam. | 144 | Pectunculus inaequalis Sb. |
| | <i>Mytilus Ropan</i> Desh. | | <i>P. pectiniformis</i> Wood. |
| | <i>Lithodomus caudigerus</i> Sow. | | <i>assimilis</i> Sowb. |
| | <i>lithophagus</i> Fl. | 144 | ? <i>multicostatus</i> Sowb. |

[Carpenter, Mazatlan Shells.]

Page.		Page.	
145	Nucula ? exigua Sowb.	March, 1896.	
145	Leda ? Elenensis Sowb.	157	Ostrea iridescent Gray.
	<i>Nucula Elenensis</i> Sowb.		<i>O. (sp. ined. b.)</i> C. B. Ad.
146	Pinna maura Sowb.		<i>O. rufa</i> (pars.?) Gould.
147	lanceolata Sowb.	159	Virginica Gmel.
147	? rugosa Sowb.		<i>O. rostrata</i> , &c. Ch.
148	Avicula sterna Gould.		<i>elongata</i> Sol.
	<i>A. Atlantica</i> Mke.		<i>crassa</i> Ch.
149	Margaritiphora Mazatlanica Hanley.		<i>Gryphaea angulata</i> Lam.
	<i>Meleagrina Mazatlanica</i> Hanley.		<i>O. Canadensis</i> Lam.
150	Isognomon Chemnitzianum d'Orb.		<i>longirostris</i> Lam.
	<i>Perna Chemnitziana</i> d'Orb.		(<i>sp. ined. d.</i>) C. B. Ad.
	<i>flexuosa</i> Sowb.		? <i>rufa</i> Gould (pars.)
151	Janus Carp.	161	Columbiensis Hanley.
152	Pecten circularis Sowb.	161	conchaphila Carp.
152	Spondylus calcifer Carp.	163	conchaphila ? (var.) pal-
	<i>S. Lamarckii</i> Hanl., &c.?	164	—— (sp. ined.) [mula.
155	—— (sp. ined.)	164	Placunanomia pernoides
155	Plicatula penicillata Carp.	166	foliata Br. [Carp.
	<i>P. dubia</i> (var.) Sowb.		<i>P. echinata</i> Br.
			<i>pectinata</i> Br.
		166	claviculata Carp.
		167	Anomia lampe Gr.
		169	—— (sp. ined.)

CLASS GASTEROPODA.

Sub-class Opisthobranchiata.

Page.		Page.	
170	Cylichna luticola C. B. Ad.	171	Tornatina carinata Carp.
	<i>Bulla (Cyl.) luticola</i> C. B. A.	172	Bulla Adamsi Mke.
	<i>Haminea luticola</i> H. & A. A.	173	? nebulosa Gould.
171	Tornatina infrequens	173	? Quoyii Gray.
	<i>C. B. Adams.</i>	173	exarata Carp.
	<i>Bulla (Torn.) infrequens</i>	174	—— (sp. ined.)
	<i>C. B. Adams.</i>	174	Haminea cymbiformis Car.
	<i>Bulla (Torn.) gracilis</i> Mke		

Sub-class Pulmonata.

Page.		Page.	
175	Glandina Albersi Pfr.	175	Glandina turris Pfr. (Ach.)
	<i>Achatina Albersi</i> Pfr.		<i>Acicula turris</i> H. & A. Ad.
			<i>Gl. Albersi</i> (var.) <i>turrita</i> C.

[Carpenter, Mazatlan Shells.]

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| <p>Page.</p> <p>176 Orthalicus zebra Mull.
 <i>Buccinum zebra</i> Müll.
 <i>Bulla zebra</i> Gmel.
 <i>Achatina zebra</i> Pfr.
 <i>O. undatus</i> Beck.
 <i>zebra</i> Beck.
 <i>Helix undatus</i> Fer.
 <i>Bulimus melanocheilus</i> Val.
 <i>Orthalicus livens</i> Beck.
 <i>Bulimus zig-zag</i> Lam.
 <i>princeps</i> Brod.
 <i>Helix princeps</i> Orb.
 <i>Orthalicus princeps</i> Beck.
 <i>Achatina pulchella</i> Spix.</p> <p>177 Ziegleri Pfr.
 <i>B. Ziegleri</i> Pfr.
 <i>Leiostracus Ziegleri</i> H. and
 A. Adams.</p> | <p>Page.</p> <p>177 Orthalicus ? Mexicanus
 <i>Lam.</i>
 <i>Bulimus Mexicanus</i> Lam.
 <i>Leiostracus Mexicanus</i> H.
 <i>Helix vittata</i> Fer. [& A. Ad.</p> <p>178 Melampus olivaceus Carp.</p> <p>179 Aplexa aurantia Carp.
 <i>Physa Peruviana</i> Mke. non</p> <p>180 elata Gould. [Gr.
 <i>P. elata</i> Gould.</p> <p>April, 1856.</p> <p>181 Planorbis tumens Carp.
 <i>Pl. affinis</i> Carp. non C. B.
 <i>tenagophilus</i> Mke. [Ad.</p> <p>182 Siphonaria Lecanium Phil.</p> <p>183 var. palmata.</p> <p>184 æquilirata Carp.</p> <p>184 ——— (sp. ined.)</p> |
|--|--|

Sub-class **Prosobranchiata.**

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| <p>Page.</p> <p>185 Janthina striulata.</p> <p>186 var. contorta.</p> <p>187 decollata.</p> <p>188 Dentalium liratum Carp.</p> <p>188 hyalinum Phil.</p> <p>189 corrugatum Carp.</p> <p>189 ? pretiosum Nutt.</p> <p>190 Lophyrus articulatus Sowb.
 <i>Chiton articulatus</i> Sowb.</p> <p>191 albolineatus Br. and Sowb.
 <i>Chiton albolineatus</i>.</p> <p>192 striatosquamosus Carp.</p> <p>193 ? Tonicia Forbesii Carp.</p> <p>194 Lepidopleurus sanguineus
 [Ree.
 <i>Chiton sanguineus</i> Ree.</p> <p>195 clathratus Carp.</p> <p>195 bullatus Carp.</p> <p>196 var. calciferus.</p> <p>196 Mac Andrei Carp.</p> <p>197 Beani Carp.</p> <p>198 Chiton flavescens Carp.</p> | <p>Page.</p> <p>198 Acanthochites Arragon-
 ites Carp.</p> <p>199 Patella Mexicana Br. and
 <i>Lottia gigantea</i>. [Sowb.
 <i>P. maxima</i>.</p> <p>200 pediculus Phil.
 <i>P. corrugata</i> Ree.</p> <p>201 discors Phil.</p> <p>202 Nacella ——— (sp. ined.)</p> <p>203 Acmæa mesoleuca Mke.
 <i>A. mutabilis</i> Mke.
 <i>Patella diaphana</i> Ree.
 <i>Lottia patina</i> C. B. Ad.
 <i>P. personoides</i> (pars?) Mid.
 <i>æruginea</i> ? Midd.
 <i>L. pintadina</i> Gld. (pars.)</p> <p>May, 1856.</p> <p>205 fascicularis Mke.
 <i>A. mutabilis</i> (pars.)
 <i>Patella open</i> Ree.
 <i>discors</i> Carp.</p> <p>207 patina Esch.</p> |
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	<i>A. scutum</i> Esch.		<i>Cremides Peruviana</i> H. and [A. Adams.]
	<i>P. mammillata</i> Nutt.	219	<i>Fissurella spongiosa</i> Carp.
	<i>tessellata</i> Nutt.	220	<i>Glyphis inæqualis</i> Sowb.
	<i>fenestrata</i> Nutt.		<i>Fissurella inæqualis</i> Sowb.
	<i>verriculata</i> Rve.		<i>Lucapina inæqualis</i> H. & A.
	<i>cinis</i> Rve.		<i>Fissurella pica</i> Sowb. [Ad.]
	<i>Nuttalliana</i> Rve.		<i>Lucapina pica</i> H. & A. Ad.
	<i>? Cumingii</i> Rve.	221	<i>alta</i> C. B. Adams.
	<i>diaphana</i> Nutt.		<i>Fissurella alta</i> C. B. Ad.
	<i>L. pintadina</i> Gld. (pars.)		<i>Lucapina alta</i> H. & A. Ad.
208	<i>Acmæa persona</i> Esch.	222	<i>Rimula Mazatlanica</i> Carp.
	<i>A. radiata</i> Esch.	223	<i>Callopoma (Turbo) fluctuosum</i> Mawe.
	<i>ancylus</i> Esch.		<i>Trochus Fokkesii</i> Jonas.
	<i>scutum</i> D'Orb.	224	<i>Phasianella perforata</i> Phil.
	<i>Lottia punctata</i> Gr.	225	var. <i>striolata</i> .
	<i>Patella Oregona</i> Nutt.	225	<i>compta</i> Gould. [Beck.]
	<i>umbonata</i> Nutt.	226	<i>Bankivia varians</i> (junior)
	<i>pileata</i> Nutt.		<i>Phasianella fasciata</i> Mke.
209	<i>scabra</i> Nutt.		<i>undatella</i> Mke.
210	<i>mitella</i> Mke.		<i>fulminata</i> Mke.
	<i>P. navicula</i> Rve. [Carp.]	227	<i>Uvanilla (Imperator) olivacea</i> Mawe.
211	<i>Scutellina navicelloides</i>		<i>Trochus olivaceus</i> Gr.
212	<i>Gadinia pentagoniostoma</i>		<i>Imperator olivaceus</i> Carp.
	Sowb. [Sowb.]		<i>U. olivacea</i> H. and A. Ad.
	<i>Siphonaria pentagoniostoma</i>		<i>Trochus brevispinosus</i> Val.
213	<i>Fissurella virescens</i> Sowb.		<i>erythrophthalmus</i> Phil.
215	<i>Barbadensis</i> Gmel.		<i>? Melchersi</i> Mke.
	<i>Patella Barbadensis</i> Gmel.		
	<i>perforata</i> Gmel.		
	<i>rosea</i> Gmel.		
	<i>porphyrozonias</i> Gm.		
	<i>Cremides Barbadensis</i> H.	June, 1856.	
215	<i>rugosa</i> Sowb. [and A. Ad.]	229	<i>inermis</i> Gmel.
	<i>Cremides rugosa</i> H. & A. Ad.		<i>Trochus inermis</i> Gmel.
	<i>F. chlorotrema</i> Mke.		<i>olivaceus</i> Phil. non
	<i>humilis</i> Mke.	229	<i>unguis</i> Mawe. [Gray.]
	<i>viminea</i> Mke.		<i>Trochus unguis</i> Mawe.
	<i>virescens</i> (jun.) Carp.		<i>Turbo unguis</i> Desh.
217	<i>nigrocinota</i> Carp.		<i>digitatus</i> Desh.
217	— (sp. ined.)		<i>Trochus amictus</i> Val.
218	<i>alba</i> Carp.		<i>? stellaris</i> Mke.
219	<i>Peruviana</i> Lam.	231	<i>Trochus versicolor</i> Mke.
	<i>F. subrotundata</i> Desh.		<i>? Ziziphinus Californicus</i>
	<i>affinis</i> (var.)	232	<i>Mac Andreæ</i> Carp. [A. Ad.]

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 <i>rufotinctus</i>.
 ? <i>Chlorostoma rugosum</i> A.</p> <p>234 viridulus Gmel. [Adams.
 <i>Trochus viridula</i> Gmel.
 <i>Globulus</i>, &c. Chemn.
 <i>Phorcus variegatus</i> A. Ad.
 <i>Trochus Brasiliensis</i> Mke.
 <i>Byronianus</i> Wood.
 <i>reticulatus</i> Gould.</p> <p>235 Omphalius ligulatus Mke.
 <i>Trochus ligulatus</i> Mke.
 ? <i>Phorcus Californicus</i> A.
 Adams.
 <i>O. Californicus</i> H. & A. Ad.
 <i>Trochus magus</i>, &c. &c.</p> <p>236 globulus Carp.
 <i>Trochus glomus</i> Mke.</p> <p>238 Vitrinella Panamensis C.</p> <p>238 parva C. B. Ad. [B. Ad.
 <i>V. clathrata</i> Carp.</p> <p>239 decussata Carp.</p> <p>240 monile Carp.</p> <p>240 monilifera Carp.</p> <p>241 lirulata Carp.</p> <p>241 subquadrata Carp.</p> <p>241 bifilata Carp.</p> <p>242 bifrontia Carp.</p> <p>243 perparva C. B. Adams.
 var. nodosa.
 <i>V. nodosa</i> Carp.</p> <p>243 exigua C. B. Adams.</p> <p>244 coronata Carp.</p> <p>245 ? annulata Carp.</p> <p>245 cinota Carp.</p> <p>246 carinulata Carp.</p> <p>246 ? naticoides Carp.</p> <p>246 ? planospirata Carp.</p> <p>247 ? orbis Carp.</p> <p>248 ? Liotia carinata Carp.</p> <p>248 ? striulata Carp.</p> <p>249 ?? C. B. Adamsii Carp.</p> <p>249 ? — (sp. ined.)</p> <p>250 ? Globulus tumans Carp.</p> | <p>Page.</p> <p>251 Ethalia pyricularis Carp.</p> <p>251 lirulata Carp.</p> <p>252 pallidula Carp.</p> <p>252 carinata Carp.</p> <p>June, 1856.</p> <p>253 amplectans Carp. [Carp.</p> <p>253 Teinostoma amplectans</p> <p>254 substriatum Carp.</p> <p>254 Trochus — (sp. ined.)</p> <p>255 Nerita scabricosta Lam.
 <i>N. ornata</i> Sowb.
 <i>Deshayesi</i> Récl.
 <i>multijugis</i> Mke.
 <i>Pila multijugis</i> H. & A. Ad.
 <i>ornata</i> H. & A. Ad.
 <i>scabricosta</i> H. & A. Ad.</p> <p>257 Bernhardi Récl.
 <i>N. funiculata</i> Mke.
 <i>N. —</i> (sp. ined. n.) C.
 B. Adams.
 <i>Theliostyla Bernhardi</i> H.
 and A. Adams.</p> <p>258 Neritina cassiculum Sowb.</p> <p>259 picta Sowb.
 <i>Vitta picta</i> H. and A. Ad.</p> <p>262 Vanikoro cryptophila Car.</p> <p>264 Trochita ventricosa Carp.
 July, 1856.</p> <p>265 Galerus conicus Brod.
 <i>Calyptrea</i> (<i>Siphopatella</i>)
 <i>conica</i> Brod.</p> <p>266 mamillaris Brod.
 <i>Calyptrea</i> (<i>Siphopatella</i>)
 <i>mamillaris</i>.
 <i>C. regularis</i> C. B. Ad.
 <i>Lamarckii</i> Mke.
 ? <i>lichen</i> Brod.
 <i>G. lichen</i> H. and A. Ad.</p> <p>268 Crepidula aculeata Gmel.
 <i>Patella aculeata</i> Gmel.
 <i>fulcata</i>, &c. Ch.
 <i>La Retorte épineuse</i> Fav.
 <i>Crepidatella aculeata</i> H. &
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	<i>Crepidula capensis</i> H. & A. Adams.		<i>Crypta incurva</i> H. & A. A.
	<i>Calyptrea echinus</i> Br.		<i>Crepidula hepatica</i> Mke.
	<i>hystrix</i> Br.	278	<i>Crepidula onyx</i> Sowb.
	<i>Crepidula hystrix</i> Br.		<i>Crypta onyx</i> H. & A. Ad.
	<i>costata</i> Mke.		? <i>Crepidula hepatica</i> C. B. A.
	<i>Californica</i> Nutt.		<i>Crepidatella hepatica</i> H. & A. Adams.
272	<i>Crepidula dilatata</i> Lam.		<i>Calyptrea amygdalus</i> Val.
	[A. Ad.]		<i>Crepidula contorta</i> Mke.
	<i>Crepidatella dilatata</i> H. & A. Adams.		<i>Cerithicola</i> Mke.
	<i>Crepidula depressa</i> Desh.	280	<i>nivea</i> C. B. Adams.
	<i>Peruviana</i> Lam.		<i>Crypta nivea</i> H. & A. Ad.
	<i>Crypta Peruviana</i> H. & A. A.		<i>Calyptrea squama</i> Br.
	<i>patula</i> H. & A. A.		<i>Crepidula squama</i> Lam.
	<i>Crepidula patula</i> Desh.		<i>Ianacus squama</i> H. & A. A.
	<i>Adolphi</i> Less.		<i>Crepidula Goreensis</i> Mke.
	<i>Crepidatella Adolphi</i> H. & A. Adams.		<i>striolata</i> Mke.
	<i>Crepidula Nautiloides</i> Less.		<i>Lessonii</i> Br.
	<i>striata</i> Lam.		<i>Ianacus Lessonii</i> H. & A. A.
	<i>Calyptrea striata</i> Br.		<i>unguiculus</i> Sowb.
	<i>Crepidatella striata</i> H. & A. Adams.		<i>Crepidula unguicula</i> Br.
	<i>pallida</i> Br.		<i>Patagonica</i> Br.
	<i>Crepidula pallida</i> Lam.		<i>protea</i> Br.
	<i>arcuata</i> D'Orb.	284	? <i>unguiformis</i> Lam.
	<i>Calyptrea foliacea</i> Br.		<i>Patella crepidula</i> Linn.
	<i>Crepidula Patagonica</i> D'O.		<i>unguiformis</i> Lam.
273	? <i>dorsata</i> Br. (var.) <i>bilobata</i> .		<i>Italica</i> DeFr.
	<i>Calyptrea dorsata</i> Br.		<i>plana</i> Say. [Ad.]
274	<i>excavata</i> Brod.		<i>Ianacus unguiformis</i> H. & A.
	<i>Calyptrea excavata</i> Br.	287	<i>Crucibulum imbricatum</i>
275	<i>adunca</i> Sowb.		Sowb.
	<i>C. solida</i> Hinds.		<i>Calyptrea imbricata</i> Sowb.
	<i>Crypta solida</i> H. & A. Ad.		<i>Crucibulum scutellatum</i> Gr.
	<i>Crepidula rostriformis</i> Gld.		<i>Patella scutellata</i> Gr.
	<i>rostrata</i> C. B. A.		<i>Calyptrea rugosa</i> Less.
	<i>Crypta rostrata</i> H. & A. Ad.		<i>auriculata</i> Carp.
	<i>Crepidula uncata</i> Mke.		<i>extinctorum</i> Sb.
	<i>incurva</i> (var.)		<i>Crucibulum extinctorum</i> H. and A. Adams.
	Carp.		<i>Calyptrea rugosa</i> Val.
	<i>Garnotia solida</i> Gray.		<i>dentata</i> Mke.
276	<i>incurva</i> Brod.		<i>auricularis</i> Des.

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290 ***spinosum*** Sowb.

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	<i>Calyptræa spinosa</i> Sowb.	308	—— (sp. ined. b.)
	<i>Patella</i> <i>Peziza</i> Wood.	309	Petalocnchus macro- phragma <i>Carp.</i>
	<i>Calyptræa tubifera</i> Less.	315	Cæcum insculptum <i>Carp.</i>
	<i>Dispolia tubifera</i> Say.	315	subspirale <i>Carp.</i>
	<i>Calyptræa auriculata</i> D'Or.	316	abnormale <i>Carp.</i>
	<i>tenuis</i> Br.	317	obtusum <i>Carp.</i>
	<i>hispida</i> Br. [Ad.	317	liratocinctum <i>Carp.</i>
	<i>Crucibulum hispida</i> H. & A.	318	var. tenuiliratum .
	<i>maculatum</i> H. & A. A.	318	var. subobsoletum .
	<i>Calyptræa maculata</i> Br.	318	var. subconicum .
295	Calyptræa cepacea Br.	319	heptagonum <i>Carp.</i>
296	Hipponyx serratus <i>Carp.</i>	319	elongatum <i>Carp.</i>
297	antiquatus Linn.	319	var. semilæve .
	<i>Patella antiquata</i> Linn.	320	subimpressum <i>Carp.</i>
	<i>Lepas alba</i> Mart.	320	firmitum C. B. Adams.
	<i>Patella mitrula</i> Gmel.		<i>C. eburneum</i> C. B. Ad.
	<i>nivea</i> Gmel.		<i>monstrum</i> C. B. Ad.
	<i>Le Soron</i> Adans.		<i>pygmæum</i> C. B. Ad.
	<i>Pileopsis antiquata</i> F. & H.		<i>diminuatum</i> C. B. Ad.
	<i>Concholepas antiquatus</i> H.	322	clathratum <i>Carp.</i>
	and A. Adams.	322	quadratum <i>Carp.</i>
	<i>Pileopsis mitrula</i> Lam.	322	var. compactum .
	<i>Capulus mitrula</i> Dunk.	323	undatum <i>Carp.</i>
	<i>Hipponice mitrale</i> Defr.		? <i>C. parvum</i> C. B. Adams.
	<i>Hipponyx Panamensis</i> C.		
	B. Ad. [A. Ad.	Sept. 1856.	
	<i>Amalthea Panamensis</i> H. &	325	læve C. B. Adams.
298	planatus <i>Carp.</i>	326	farcimen <i>Carp.</i>
299	barbatus Sowb.	327	glabriforme <i>Carp.</i>
	? <i>H. australis</i> Mke.	327	corrugulatum <i>Carp.</i>
299	(<i>Amalthea</i>) <i>Grayanus</i> Mk.	328	dextroversum <i>Carp.</i>
	<i>H. radiata</i> Gr.	329	reversum <i>Carp.</i>
300	Capulus —— (sp. ined.)	329	teres <i>Carp.</i>
301	Aletes centiquadrus Val.	330	Turitella gonistoma Val.
	<i>Vermetus centiquadrus</i> Val.		<i>Haustator gonistoma</i> H. &
	<i>Peronii</i> Val.		A. Adams.
302	var. imbricatus .		<i>T. lentiginosa</i> Rve.
303	margaritarum Val.		<i>Hookeri</i> Mke.
	<i>Vermetus margaritarum</i> Val.	332	tigrina Kien.
304	Vermetus eburneus Ree.		<i>Haustator tigrina</i> H. & A. A.
305	? Bivonia contorta <i>Carp.</i>		<i>T. imbricata</i> Mke.
307	? var. indentata .	333	Cerithium maculosum Kien.
307	albida <i>Carp.</i>		<i>C. nudum</i> Kien.
307	—		nebulosum Sowb.

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331	Cerithium ? famelicum C. B. Adams. <i>C. uncinatum</i> Sowb.	352	Modulus catenulatus Phil. <i>Trochus catenulatus</i> Küst. <i>M. trochiformis</i> Ey. & Soul. <i>Carchedonicus</i> Carp.
334	var. mediolæve . <i>C. umbonatum</i> Sowb.	353	— (sp. ined.)
335	? uncinatum Gmel. <i>Murex uncinatus</i> Gmel. No. 198 Schr. <i>Strombus muricatus</i> &c. Sc. <i>C. famelicum</i> (pars.) C.B.A.	353	disculus Phil. <i>Trochus disculus</i> Phil. <i>M. duplicatus</i> (var.) A.Ad. <i>dorsuosus</i> Gould.
336	— (sp. ined. a.)	354	Fossarus tuberosus Carp. ? <i>Trichotropis</i> (sp. 1.) [Carp.]
336	alboliratum Carp.	354	angulatus Carp.
337	— (sp. ined. b.)	355	Isapis maculosa Carp.
337	stercus-muscarum Val. <i>C. irroratum</i> Gould. <i>ocellatum</i> Mke.	356	— (? sp. ined.)
338	interruptum Mke. ? <i>C. —</i> (sp. ined.) C.B.A.	356	Rissoina stricta Mke. <i>Rissoa stricta</i> Mke.
339	Vertagus gemmatus Hinds. <i>Cerithium gemmatum</i> Hds. <i>V. gemmatus</i> H. & A. Ad. (sp. ined.)	357	— (sp. ined.)
340	— (sp. ined.)	357	Woodwardii Carp.
341	Triforis alternatus C. B. Ad.	358	lirata Carp.
341	inconspicuus C. B. Ad.	359	Alvania excurvata Carp.
342	? infrequens C. B. Ad.	359	effusa Carp.
342	Cerithidea Montagnei D'O. <i>Cerithium Montagnei</i> D'Or. <i>Reeveanum</i> C. B. A.	360	tumida Carp.
344	varicosa Sowb. (var.) Mazatlanica . <i>C. varicosum</i> Sowb. ? <i>validum</i> C. B. Ad.	360	— (sp. ined.)
346	Littorina conspersa Phil. <i>L. puncticulata</i> Phil. <i>Melaraphe puncticulata</i> H. and A. Adams. <i>L. modesta</i> Mke.	360	Cingula — (sp. ined.)
348	aspera Phil. <i>Melaraphe aspera</i> H. & A. A.	361	Hydrobia ulvæ Penn. <i>Turbo ulvæ</i> Penn. <i>Paludinella stagnalis</i> Midd. ? <i>Helix stagnalis</i> Linn.
Oct. 1856.		361	— (sp. ined.)
349	Philippii Carp.	362	Jeffreyssia bifasciata Carp.
350	— (sp. ined.)	362	? Alderi Carp.
351	Littorina fasciata Gray. <i>Melaraphe fasciata</i> Gr.	363	tumens Carp.
		363	? — (sp. ined.)
		364	Truncatella — (sp. ined.)
		364	Planaxis nigrifella Forbes. <i>Pl. acutus</i> Mke. <i>obsoletus</i> Mke.
		366	Alaba supralirata Carp.
		367	violacea Carp.
		367	terebralis Carp.
		368	alabastrites Carp.
		368	scalata Carp.

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368	<i>Alaba ? conica</i> Carp.	Nov. 1856.	
369	? <i>mutans</i> Carp.	385	<i>Myurella Hindsi</i> Carp.
369	? <i>laguncula</i> Carp.	386	<i>subnodosa</i> Carp.
370	? — (sp. ined. a.)	386	<i>rufocinerea</i> Carp.
370	? — (sp. ined. b.)	387	<i>Subula luctuosa</i> Hinds.
370	<i>Ovula variabilis</i> C. B. Ad.		<i>Terebra luctuosa</i> Hinds.
	<i>O. Californica</i> Sowb.		<i>Hastula luctuosa</i> H. & A. A.
371	<i>Cypræa exanthema</i> Linn.	388	<i>Euryta fulgurata</i> Phil.
	<i>C. zebra</i> Linn.		<i>Terebra arguta</i> Gould.
	<i>cervinetta</i> Kien.	389	<i>aciculata</i> Lam. [Lam.
	<i>cervus</i> (var.) Rve.		? <i>Buccinum aciculatum</i>
Oct. 1856.			<i>Terebra aciculata</i> Gr.
373	<i>Luponia ? spurca</i> Linn.	390	<i>Pleurotomafuniculata</i> Val.
	<i>Cypræa spurca</i> Linn.		<i>P. olivacea</i> (var.) Rve.
	<i>flaveola</i> Lam.		<i>Surecula funiculata</i> H. & A.
	<i>acicularis</i> Gmel.	391	<i>maculosa</i> Sowb. [Ad.
373	<i>Aricia arabicula</i> Lam.		<i>Drillia maculosa</i> H. & A. A.
	<i>Cypræa arabicula</i> Lam.	392	<i>Drillia incrassata</i> Sowb.
	? <i>punctulata</i> Gr.		<i>Pleurotoma incrassata</i> Sb.
375	<i>Trivia pustulata</i> Lam.		<i>Crassispira incrassata</i> H.
	<i>Cypræa pustulata</i> Lam.		& A. Adams.
	<i>Pustularia pustulata</i> H. &		<i>Pleurotoma Bottæ</i> Kien.
376	<i>radians</i> Lam. [A. Ad.	393	<i>rudis</i> Sowb.
	<i>Cypræa radians</i> Lam.		<i>Pleurotoma rudis</i> Sowb.
	<i>oniscus</i> Wood.		<i>Crassispira rudis</i> H. & A. A.
377	<i>Solandri</i> Gray.	393	<i>aterrima</i> Sowb. var. <i>Mel-</i>
	<i>Cypræa Solandri</i> Sowb.		<i>chersi</i> .
378	<i>sanguinea</i> Gr.		<i>Pleurotoma aterrima</i> Sowb.
	<i>Cypræa sanguinea</i> Sowb.		<i>Crassispira aterrima</i> H. &
	<i>fusca</i> Gray.		A. Adams.
379	<i>pulla</i> Gaskoin.		? <i>Pleurotoma maura</i> Val.
	<i>C. pulla</i> Gaskoin.		<i>Melchersi</i> Mke.
379	<i>subrostrata</i> Gray.		? <i>discors</i> Sowb.
	<i>Cypræa subrostrata</i> Sowb.		? <i>atrior</i> C. B. A.
380	<i>Cancellaria urceolata</i> Hind.		<i>rustica</i> Carp.
	<i>C. obesa</i> Carp.	394	? <i>cerithioidea</i> Carp.
	? <i>ovata</i> Mke.	395	<i>zonulata</i> Rve.
380	<i>goniostoma</i> Sowb.		<i>Pleurotoma cincta</i> Sowb.
381	<i>Strombus galeatus</i> Swains.		<i>zonulata</i> Rve.
	<i>S. galea</i> Wood.		<i>Crassispira zonulata</i> H. &
	<i>crenatus</i> Sowb.	395	<i>monilifera</i> Carp. [A. Ad.
382	<i>granulatus</i> Swains.	396	<i>albovallosa</i> Carp.
383	<i>gracilior</i> Sowb.	397	<i>albonodosa</i> Carp.
384	<i>Myurella albo-cincta</i> Carp.	397	<i>luctuosa</i> Hinds.

[Carpenter, Mazatlan Shells.]

Page.		Page.	
	<i>Clavatula luctuosa</i> Hinds.		<i>Pyramidella conica</i> C. B. A.
	<i>Pleurotoma luctuosa</i> Rve.	410	<i>Odostomia subilirulata</i> Car.
	<i>Crassispira luctuosa</i> H. & A. Adams.	410	—— (sp. ined.)
398	? <i>Hanleyi</i> Carp.	411	<i>lamellata</i> Carp.
398	—— (sp. ined.)	411	<i>subsulcata</i> Carp.
398	—— (sp. ined.)	411	<i>vallata</i> Carp.
399	<i>Clathurella rava</i> Hinds.	412	<i>mammillata</i> Carp.
	<i>Clavatula rava</i> Hinds.	412	<i>tenuis</i> Carp.
	<i>Defrancia rava</i> H. & A. A.	413	<i>Auriculina</i> —— (sp. ined. a.)
	? <i>Pleurotoma rava</i> Rve.	413	—— (sp. ined. b.)
400	<i>aurea</i> Carp.	413	—— (sp. ined. c.)
400	<i>Mangelia</i> ? <i>acuticostata</i>	413	<i>Parthenia scalariformis</i> Cp.
	var. <i>subangulata</i> .	414	<i>quinquecincta</i> Carp.
401	<i>Cithara</i> —— (sp. ined.)	414	<i>lacunata</i> Carp.
401	<i>Conus regularis</i> Sowb.	415	<i>armata</i> Carp.
	<i>Leptconus regularis</i> H. &	415	<i>exarata</i> Carp.
402	<i>purpurascens</i> Br. [A. Ad.]	416	<i>ziziphina</i> Carp.
	<i>Chelyconus purpurascens</i> H. and A. Adams.	417	<i>Chrysallida ovata</i> Carp.
	<i>Conus comptus</i> Gould.	417	<i>nodosa</i> Carp.
	? <i>interruptus</i> Br. & S.	418	<i>rotundata</i> Carp.
403	<i>regalitis</i> Sowb.	418	<i>oblonga</i> Carp.
	? <i>C. achatinus</i> Mke.	419	<i>communis</i> C. B. Ad.
	? <i>purpurascens</i> (var.)		<i>Chemnitzia communis</i> C. B. Adams.
	<i>Chelyconus regalitis</i> H. &	Dec. 1856.	
404	<i>arenatus</i> Brug. [A. Ad.]	421	<i>telescopium</i> Carp.
404	<i>puncticulatus</i> Hwass.	422	<i>Reigeni</i> Carp.
	<i>Chelyconus puncticulatus</i>	422	<i>effusa</i> Carp.
	H. and A. Adams.	423	<i>fasciata</i> Carp.
405	<i>gladiator</i> Brod.	423	<i>ovulum</i> Carp.
	<i>Rhizoconus gladiator</i> H. &	424	<i>clathratula</i> C. B. Adams.
405	<i>nux</i> Brod. [A. Ad.]		<i>Chemnitzia clathratula</i> C.
	<i>Coronaxis nux</i> H. & A. Ad.	424	<i>convexa</i> Carp. [B. Ad.]
406	? <i>scalaris</i> Val.	425	<i>Photis</i> Carp.
406	—— (sp. ined.)	425	<i>indentata</i> Carp.
407	<i>Torinia</i> ? <i>variegata</i> Lam.	426	? <i>clausiliformis</i> Carp.
	<i>Solarium variegatum</i> Lam.	427	<i>Chemnitzia</i> ? <i>Panamensis</i>
	<i>Trochus perspectivunculus</i>		C. B. Adams.
	Chemn.	427	<i>C. B. Adamsi</i> Carp.
	<i>Euomphalus radiatus</i> Mke.	428	<i>similis</i> C. B. Ad.
408	? <i>granosa</i> Val.	428	<i>aculeus</i> C. B. Ad.
409	<i>Obeliscus</i> ? <i>conicus</i> (jun.)	428	<i>muricata</i> Carp.
	C. B. Adams.	429	? <i>affinis</i> C. B. Ad.
		429	<i>prolongata</i> Carp.

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- | Page. | | Page. | |
|-------|---|-------|--|
| 430 | <i>Chemnitzia gibbosa</i> Carp. | 445 | <i>Cerithiopsis assimilata</i> C.
B. Adams. |
| 430 | — (sp. ined. a.) | | <i>Cerithium assimilatam</i> C.
B. Adams. |
| 430 | — (sp. ined. b.) | 446 | <i>Scalaria hexagona</i> Sowb. |
| 430 | — (sp. ined. c.) | | <i>Clathrus hexagonus</i> H. & A. |
| 431 | — (sp. ined. d.) | 446 | <i>suprastrata</i> Carp. [Ad. |
| 431 | <i>gracillima</i> Carp. | 447 | — (sp. ined. a.) |
| 431 | <i>undata</i> Carp. | 447 | — (sp. ined. b.) |
| 432 | <i>flavescens</i> Carp. | 447 | <i>raricostata</i> Carp. |
| 432 | <i>terebialis</i> Carp. | 447 | <i>Circotrema funiculata</i> Car. |
| 433 | <i>tenuilirata</i> Carp. | 448 | <i>Natica maroccana</i> Chemn. |
| 433 | <i>unifasciata</i> Carp. | | <i>Nerita maroccana</i> Chemn. |
| 434 | <i>Dunkeria paucilirata</i> Carp. | | <i>marochiensis</i> Gm. |
| 434 | <i>subangulata</i> Carp. | | <i>glaucina</i> Linn. |
| 435 | <i>cancellata</i> Carp. | | <i>Natica marochienis</i> Rve. |
| 435 | <i>intermedia</i> Carp. | | <i>intermedia</i> Phil. |
| 436 | ? <i>Eulimella obsoleta</i> Carp. | | <i>Poliana Sacchi</i> . |
| 436 | — (sp. ined. a.) | | <i>lurida</i> Phil. |
| 436 | — (sp. ined. b.) | | <i>unifasciata</i> Lam. |
| 437 | — (sp. ined. c.) | | <i>Chemnitziana</i> Pfr. |
| 437 | — (sp. ined.) | | <i>Chemnitzii</i> Mke. |
| 437 | <i>Aclis fusiformis</i> Carp. | | <i>Pritchardi</i> Forb. |
| 438 | <i>tumens</i> Carp. | | ? <i>iostoma</i> Mke. |
| 438 | <i>Eulima</i> ? <i>hastata</i> Sowb. | | <i>Neverita Chemnitzii</i> H. & |
| 438 | — (sp. ined. a.) | 450 | — (sp. ined.) [A. Ad. |
| 438 | — (sp. ined. b.) | 451 | <i>Lunatia tenuilirata</i> Carp. |
| 439 | <i>Leiostraca</i> ? <i>recta</i> C. B. A. | 451 | — (sp. ined. a.) |
| | <i>Eulima recta</i> C. B. Ad. | 451 | — (sp. ined. b.) |
| 439 | ? <i>solitaria</i> C. B. Adams. | 451 | — (sp. ined. c.) |
| | <i>E. solitaria</i> C. B. Adams. | 452 | <i>Polinices uber</i> Val. |
| 439 | — (sp. ined. a.) | | <i>Natica uber</i> Val. |
| 440 | — (sp. ined. b.) | | ? <i>alabaster</i> Rve. |
| 440 | <i>linearis</i> Carp. | 453 | <i>Lamellaria</i> — (sp. ined. a.) |
| 440 | ? <i>iota</i> (var.) <i>retexta</i> . | 453 | — (sp. ined. b.) |
| 441 | ? <i>distorta</i> (var.) yod. | 453 | <i>Ficula ventricosa</i> Sowb. |
| | <i>Melania distorta</i> Phil. | | <i>Pyrula ventricosa</i> Sowb. |
| | <i>E. distorta</i> Desh. | | <i>Bulla decussata</i> Wood. |
| 442 | <i>Cerithiopsis tuberculoides</i> | | <i>Ficula decussata</i> Rve. |
| 443 | var. <i>albonodosa</i> . [Carp. | 454 | <i>Argobuccinum nodosum</i> |
| 443 | <i>cerea</i> Carp. | | <i>Triton nodosum</i> Mke. [Ch. |
| 443 | <i>pupiformis</i> Carp. | | <i>Murex argus</i> (var. b.) Gm. |
| 444 | <i>sorex</i> Carp. | | <i>T. Chemnitzii</i> Gray. |
| 444 | <i>convexa</i> Carp. | | <i>Fusus Wiegmanni</i> Ant. |

Jan. 1857.

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Page.		Page.	
	<i>Lagena Wiegmanni</i> H. & A. Adams.	Feb. 1857.	
	<i>Cassidaria setosa</i> Hinds?	469	<i>Olivella tergina</i> Ducl.
	<i>T. perforatus</i> Conrad.		<i>Oliva tergina</i> Ducl.
456	<i>Turbinella cæstus</i> Br.	469	<i>anazora</i> Ducl.
	<i>Vasum cæstus</i> H. & A. Ad.		<i>Oliva anazora</i> Ducl.
	<i>Turbinella ardeola</i> Val.	470	? <i>petiolita</i> (var.) <i>aureo-cincta</i> .
Jan. 1857.			? <i>Oliva petiolita</i> Ducl.
457	<i>Lathirus ceratus</i> Gr.	470	<i>inconspicua</i> C. B. Adams.
	<i>Murex ceratus</i> Gray.		<i>Oliva inconspicua</i> C. B. A.
	<i>Turbinella cerata</i> Gray.	471	<i>dama</i> Mawe.
457	<i>Leucozonía cingulata</i> Lam.		<i>Voluta dama</i> Mawe.
	<i>Monoceros cingulatum</i> Lam.		<i>Oliva lineolata</i> Gray.
	<i>Buccinum cingulatum</i> Wood.		<i>purpurata</i> Swains.
	<i>Turbinella cingulata</i> Kien.		<i>gracilis</i> Ducl.
458	<i>Fasciolaria princeps</i> Sowb.	471	<i>zonalis</i> Lam. [Ad.
	<i>F. aurantiaca</i> Sowb.		<i>Oliva zonalis</i> Lam.
459	<i>Mitra lens</i> Mawe.	472	<i>Agaronia testacea</i> Lam.
	<i>Voluta lens</i> Wood.		<i>Oliva testacea</i> Lam.
	<i>Tiara foraminata</i> Swains.		<i>hiatula pars</i> Ducl.
	<i>M. Dupontii</i> Kien.		<i>Agaronia hiatula</i> H. & A. A.
461	<i>Strigatella tristis</i> Br.	474	<i>Purpura patula</i> Linn.
	<i>Mitra tristis</i> Br.		<i>Buccinum patulum</i> Linn.
	<i>amphorella</i> Carp.		<i>Le Pakel</i> Adans.
461	<i>Marginella minor</i> C. B. Ad.		<i>P. pansa</i> Gould.
	<i>Gibberula minor</i> H. & A. A.	475	<i>columellaris</i> Lam.
462	<i>polita</i> Carp.	476	<i>muricata</i> Gray.
462	<i>margaritula</i> Carp.		<i>Monoceros muricatum</i> Rve.
463	<i>Oliva angulata</i> Lam.		<i>P. cassidiformis</i> D'Orb.
	<i>Voluta incrassata</i> Dillw.		<i>truncata</i> Ducl.
	<i>Strephona incrassatus</i> H.	477	<i>biserialis</i> Blainv.
464	<i>Melchersi</i> Mke. [& A. A.		<i>P. bicostalis</i> Rve.
	<i>O. angulata</i> Carp.		<i>undata</i> Val.
465	<i>intertincta</i> ? Carp.		<i>hæmastoma</i> Mke.
466	? <i>venulata</i> Lam.		<i>consul</i> Mke.
	<i>O. araneosa</i> C. B. Ad.	479	<i>triserialis</i> Blainv.
	? <i>Julietta</i> Mke.		<i>P. speciosa</i> Rve.
	<i>reticularis</i> (var.) Rve.		<i>centiquadra</i> Val.
467	<i>Duclosi</i> Rve.		<i>Thalessa speciosa</i> H. & A.
467	<i>Olivella undatella</i> Lam.		Adams.
	<i>Oliva undatella</i> Lam.	480	<i>triangularis</i> Blainv.
	<i>Voluta tenebrosa</i> Wood.		<i>P. Carolensis</i> Rve. [Ad.
			<i>Tribulus Carolensis</i> H. & A.

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- | Page. | | Page. | |
|--------------|---|-------|---|
| 481 | Cuma kiosquiformis Ducl.
<i>Purpura kiosquiformis</i> Duc.
<i>scalariformis</i> D'Or
— (sp. ined.) C. | 495 | <i>Phrontis xanthostoma</i> H. &
Nassa tegula Rve. [A. Ad. |
| 482 | costata Blainv. [B. Ad.
<i>P. costata</i> Blainv.
<i>diadema</i> Lam. | 496 | var. nodulifera Phil. [Ad.
<i>Phrontis nodulifera</i> H. & A. |
| 484 | Rhizocheilus nux Rve.
<i>Murex nux</i> Rve. | 497 | (? Pagodus var.) acuta . |
| 485 | Vitularia salebrosa King.
<i>Murex salebrosus</i> King.
<i>Fusus salebrosus</i> Forbes.
<i>Murex ritulinus</i> Gray. | 498 | — (sp. ined. a.) |
| 487 | Nitidella cribraria Lam.
<i>Buccinum cribrarium</i> Lam.
<i>Columbella cribraria</i> Sowb.
<i>Mitrella cribraria</i> H. & A. A.
<i>Voluta ocellata</i> Gmel.
<i>Le Barnet</i> Adans.
<i>B. parvulum</i> Dunk.
<i>C. mitriformis</i> Br. & King.
<i>guttata</i> Sowb. | 498 | — (sp. ined. b.) |
| 488 | — (sp. ined.) | 498 | — (sp. ined. c.) |
| 489 | Columbella major Sowb.
<i>C. strombiformis</i> (var.)
<i>paytalida</i> Ducl. [Kien.
? <i>gibbosa</i> Val. | 498 | — (sp. ined. d.) |
| 490 | strombiformis Lam.
<i>Buccinum strombiforme</i>
? <i>C. gibbosa</i> Val. [Wood. | 498 | — (sp. ined. e.) |
| 492 | fuscata Sowb.
<i>C. meleagris</i> Kien.
<i>rustica</i> pars Sowb. | 498 | ? gemmulosa C. B. Ad.
<i>Niotha gemmulosa</i> H. & A. |
| March, 1857. | | 499 | ? versicolor C. B. Ad. [A.
<i>Uzita versicolor</i> H. & A. A. |
| 493 | cervinetta Carp. | 499 | crebristriata Carp. |
| 493 | cervinetta (var.) obso-
leta . | 499 | — (sp. ined. f.) |
| 493 | ? Metula — (sp. ined. a.) | 500 | — (sp. ined. g.) |
| 494 | ? Metula — (sp. ined. b.) | 500 | — (sp. ined. h.) |
| 494 | ? Metula — (sp. ined. c.) | 500 | — (sp. ined. i.) |
| 494 | ? Metula — (sp. ined. d.) | 500 | Pyrula patula Br. and Sw.
<i>Cyrtulus patulus</i> Hinds.
<i>Cassidulus patulus</i> H. and
A. Adams. |
| 494 | Nassa luteostoma Br. & S.
<i>Buccinum luteostomum</i> Kie.
<i>Nassa xanthostoma</i> Gray. | 502 | Fusus pallidus Br. & Sowb.
<i>Pyrula lignaria</i> Rve.
<i>F. turbinelloides</i> Rve.
<i>lignarius</i> H. and A. Ad.
<i>Neptunea pallida</i> H. & A. A. |
| | | 503 | tumens Carp. |
| | | 504 | apertus Carp. |
| | | 504 | — ? (sp. ined. a.) |
| | | 504 | — ? (sp. ined. b.) |
| | | 505 | ? Cominella — (sp. ined.) |
| | | 505 | Anachis scalarina Sowb.
<i>Columbella scalarina</i> Sowb. |
| | | 506 | costellata Br. and Sowb.
<i>C. costellata</i> Br. & Sowb. |
| | | 507 | var. pachyderma . |
| | | 508 | — (sp. ined.) |
| | | 508 | coronata Sowb.
<i>Columbella coronata</i> Sowb. |
| | | 509 | ? fulva Sowb.
<i>C. fulva</i> Sowb. |

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Page.		Page.	
509	Anachis nigrofusca Carp.	523	Phyllonotus nitidus Br.
509	serrata Carp.		<i>M. nitidus</i> Br.
510	pygmæa Sowb.	523	brassica Lam.
	<i>C. pygmæa</i> Sowb.		<i>M. brassica</i> Lam.
510	Gaskoini Carp.		<i>ducalis</i> Br.
511	rufotincta Carp.	524	bicolor Val.
512	albonodosa Carp.		<i>M. bicolor</i> Val.
512	— (sp. ined. a.)		<i>erythrostomus</i> Swains.
512	— (sp. ined. b.)		<i>regius</i> Sch. and Wagn.
513	Strombina maculosa Sowb.		<i>hippocastanum</i> Phil.
	<i>Columbella maculosa</i> Sowb.	524	regius Swains.
513	— ? (sp. ined.)		<i>M. regius</i> Swains.
514	Pisania insignis Rve. [Val.		<i>tricolor</i> Val.
	<i>Buccinum mutabile</i> (pars.)	524	princeps Er.
	<i>insignis</i> Rve.		<i>M. princeps</i> Br.
	<i>Tritonidia insignis</i> H. & A. A.	526	Muricidea ? lappa Br.
515	(? Pagodus [var.] æquilirata .		<i>Murex lappa</i> Br.
515	gemmata Rve.	526	dubia Swains.
	<i>B. gemmatum</i> Rve.		<i>Murex dubius</i> Swains.
	<i>gemmulatum</i> Mke.		<i>aculeatus</i> Wood.
	<i>undosum</i> Kien. [A. Ad.	527	? erinaceoides (var.) indentata .
	<i>Tritonidea gemmatus</i> H. &		<i>Murex erinaceoides</i> Val.
	<i>B. mutabile</i> (pars.) Val.	528	Murex — (sp. ined.)
517	sanguinolenta Ducl.	528	Muricidea pauxillus A. Ad.
	<i>Purpura sanguinolenta</i> Du.		<i>Murex pauxillus</i> A. Ad.
	<i>B. sanguinolentum</i> Mke.		(ADDITIONAL SPECIES)
	<i>Pollia hæmastoma</i> Gr.	529	? Narano scobina Carp.
	<i>B. hæmastoma</i> Rve.	529	Mya — (sp. ined.)
	<i>Janelii</i> Val.	530	? Corbula — (sp. ined. b.)
	<i>Tritonium verrucosum</i> Mke.	530	Sphænia — (sp. ined.)
	<i>Tritonidea sanguinolentus</i>	530	? — (sp. ined.)
518	ringens Rve. [H. & A. Ad.	530	? Lyonsia — (sp. ined.)
	<i>B. ringens</i> Rve.	531	Tellina — (sp. ined. c.)
	<i>Tritonidea ringens</i> H. & A. A.	531	Cardium rotundatum Carp.
518	Murex plicatus Sowb.	531	Lasea — (sp. ined.)
	<i>M. unidentatus</i> Mke.	531	? Montacuta chalcædonica
519	? recurvirostris (var.)		<i>Carp.</i>
	lividus .	532	Arca — (sp. ined. b.)
	<i>M. recurvirostris</i> Br.	532	Pecten — (sp. ined. a.)
	<i>messorius</i> Mke.	532	— (sp. ined. b.)
521	Phyllonotus nigrinus Meus.	533	Smaragdinella thecaphora
	<i>Murex nigrinus</i> Phil.		Nutt.
	<i>ambiguus</i> Rve.		

APPENDIX.

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Page.		Page.	
534	<i>Corbula alba Phil.</i>	535	<i>Siphonaria Lecanium Phil.</i>
534	<i>Tellina cicercula Phil.</i>	535	<i>Trochus disculus Phil.</i>
534	<i>lenticula Phil.</i>	535	<i>Buccinum nucleolus Phil.</i>
534	<i>dichotoma Phil.</i>	535	<i>Terebra fulgurata Phil.</i>
534	<i>ervilia Phil.</i>	535	<i>Columbella pallida Phil.</i>
534	<i>Diplodonta obliqua Phil.</i>	535	<i>spadicea Phil.</i>
534	<i>Lucina cancellaris Phil.</i>	535	<i>tæniata Phil.</i>
535	<i>Patella pediculus Phil.</i>	536	<i>Dentalium hyalinum Phil.</i>

[Here follows a copy of Menke's List of Mazatlan Shells, from Zeit. F. Mal. 1847-51. Descriptions are given of the following.—W. G. B.]

Page.		Page.	
536	<i>Natica iostoma Mke.</i>	June, 1857.	
536	<i>Buccinum gilvum Mke.</i>	541	<i>Planaxis acutus Mke.</i>
537	<i>Erato columbella Mke.</i>	541	<i>obsoletus Mke.</i>
537	<i>Crepidula costata Sowb.</i>	541	<i>Euomphalus radiatus Mke.</i>
537	<i>hepatica Desh.</i>	541	<i>Trochus (Calcar) Mel-</i>
538	<i>uncata Mke.</i>		<i>chersi Mke.</i>
538	<i>Fissurella chlorotrema</i>	541	<i>versicolor Mke.</i>
538	<i>humilis Mke. [Mke.]</i>	542	<i>ligulatus Mke.</i>
538	<i>gemmata Mke.</i>	542	<i>Rissoa stricta Mke. [Mke.]</i>
538	<i>Acmæa mitella Mke.</i>	542	<i>Cerithium interruptum</i>
538	<i>Mytilus spatula Mke.</i>	543	<i>Columbella nasuta Mke.</i>
539	<i>Modiola semilævis Mke.</i>	543	<i>Terpsichore Sowb.</i>
539	<i>Cytherea semifulva Mke.</i>	544	<i>Pleurotoma Melchersi</i>
539	<i>chionæa Mke.</i>	544	<i>Oliva Melchersi Mke. [Mke.]</i>
540	<i>Bulla Adamsi Mke.</i>	545	<i>Crepidula striolata Mke.</i>
540	<i>Natica ovum Mke.</i>	546	<i>Acmæa mutabilis Mke.</i>
540	<i>Nerita funiculata Mke.</i>	546	<i>fascicularis Mke.</i>
		546	<i>mesoleuca Mke.</i>

ADDITIONS AND CORRECTIONS.

Page.	
547	To p. 2 <i>et passim Imperator</i> = <i>Uvanilla</i> .
547	" 7 <i>Spondylus Lamarckii</i> = <i>S. calcifer</i> .
547	" 17 <i>Petricola sinuosa</i> Conrad = <i>P. robusta</i> .
547	" 21 <i>Corbula bicarinata</i> = <i>C. alba</i> ?
547	" 25 <i>Tyleria fragilis</i> H. and A. Adams.
548	" 26 <i>Semele proxima</i> = <i>S. flavescens</i> Gould.
548	" 31 <i>Sanguinolaria purpurea</i> = <i>S. miniata</i> Gould (<i>Tellina</i> .)

Page.

548	To p. 39	<i>Tellina Burneti</i> = Tellidora.
548	" 43	<i>Donax culminatus</i> = D. rostratus C. B. Adams.
548	" 44	Donax flexuosus Gould (sp. distinct.)
548	" 50	<i>Lutraria ventricosa</i> = Mactra exoleta.
549	" 52	<i>Gnathodon trigona</i> Pet. = G. mendicus Gould.
549	" 58	<i>Cytherea aquilatera</i> Desh. = Trigona argentina.
549	" 80	? <i>Venus succincta</i> Val. = Anomalocardia subimbri- cata.
549	" 90	<i>Hipponix tessellatus</i> = H. serratus.
550	" 135	<i>Arca trapezia</i> = A. tuberculosa.
550	" 149	<i>Margaritiphora Mazatlanica</i> = M. fimbriata Dunk.
550	" 159	Ostrea palmula (sp. distinct.)
550	" 169	Naranio ——— (sp. ined.)
550	" 182	<i>Siphonaria squilatorata</i> = S. Lecanium.
551	" 220	<i>Fissurella mus</i> = Glyphis inæqualis.
552	" 358	<i>Rissoa lirata</i> = Barleeia lirata.
552	" 388	<i>Terebra fulgurata</i> = Euryta fulgurata.

[Other important corrections and additions have not been noticed by me. They must be consulted by the student. Indeed, it has been impossible to quote this work as exactly as the others of my Bibliography, owing to the thoroughness of the references, comparisons, &c.—W. G. B.]

Agassiz.—Ueber die Gattungen unter den nordamerikanischen Najaden. Briefliche Mittheilung an den Herausgeber in: Archiv. f. Naturg. 18 Jahrg. 1852. 1 Bd., p. 41.

Page.	§ 1.	Page.	§ 2.
43	<i>Dysnomia</i> Ag.	47	<i>Micromya</i> Ag.
43	<i>Scalenaria</i> Raf.	47	<i>Crypogenia</i> Ag.
44	<i>Truncilla</i> Raf.	48	<i>Plagiola</i> Raf.
44	<i>Lampsilis</i> Raf.	48	<i>Orthonymus</i> Ag.
44	<i>Canthyria</i> Swains.	48	<i>Tritogonia</i> Raf.
45	<i>Eurynia</i> Raf.	48	<i>Quadrula</i> Raf.
45	<i>Metaptera</i> Raf.	48	<i>Rotundaria</i> Raf.
46	<i>Alasmodonta</i> Say.	48	<i>Complanaria</i> Swains.
46	<i>Obovaria</i> Raf.	49	<i>Pleurobema</i> Raf.
		49	<i>Unioopsis</i> Swains.
		49	<i>Margaritana</i> Sch.
		50	<i>Hemilastena</i> Raf.

[The above is a very imperfect quotation of the paper, which must be consulted by the student.—W. G. B.]

Agassiz, Siebold.—Ueber das Wassergefäßsystem der Mollusken. Eine briefliche Mittheilung von L. AGASSIZ an C. TH. v. SIEBOLD. (From Zeits. für Wissenschaftliche Zoologie, 7 Band, p. 176. Leipzig, 1856.)

Sullivant.—An Alphabetical Catalogue of Shells, Fossils, Minerals, and Zoophytes, in the cabinet of JOSEPH SULLIVANT, Curator of the Philosophical and Historical Society of Ohio. Columbus, Ohio, 1838. (8vo. pp. 38.)

[The only species of Shells for which the locality is given are the following.—W. G. B.]

Page.

9	Unio alatus Say.	Scioto river.
9	catillus Conrad.	Scioto river.
9	circulus Lea.	Scioto river.
9	coccineus Hildreth.	Scioto river.
9	Cooperianus Lea.	Scioto river.
9	cornutus Barnes.	Scioto river.
9	crassus Say.	Scioto river.
9	cylindricus Say.	Scioto river.
9	dehiscens Say.	Scioto river.
9	dolabraformis Lea.	Scioto river.
9	elegans Lea.	Scioto river.
9	ellipsis Lea.	Scioto river.
9	foliatus Hildreth.	Scioto river.
9	gibbosus Barnes.	Scioto river.
9	glans Lea.	Scioto river.
9	Gouldianus Ward.	Scioto river.
9	Hildrethianus Lea.	Ohio river.
9	iris Lea.	Scioto river.
9	irroratus Lea.	Scioto river.
10	lachrymosus Lea.	Scioto river.
10	lapillus Say.	Scioto river.
10	lævissimus Lea.	Scioto river.
10	lens Lea.	Scioto river.
10	luteolus Lam.	Scioto river.
10	monodonta Say.	Ohio and Scioto rivers—
10	multiplicatus Lea.	Scioto.
10	multiradiatus Lea.	Scioto.
10	mytiloides Raf.	Scioto.
10	nasutus Say.	Walhonding.
10	nexus Say.	Alabama.

10	<i>Unio obliquus</i> Lam.	Scioto.
10	<i>occidens</i> Lea.	Scioto.
10	<i>ochraceus</i> Say.	Eastern waters.
10	<i>ovatus</i> .	Scioto.
10	<i>parvus</i> .	Scioto.
10	<i>patulus</i> .	Scioto.
10	<i>penatus</i> Conrad.	Alabama.
10	<i>perdix</i> Lea.	Alabama.
10	<i>perplexus</i> .	Scioto river.
10	<i>pileus</i> Lea.	Ohio.
10	<i>plicatus</i> .	Scioto.
10	<i>purpurens</i> .	Scioto.
10	<i>pustulatus</i> Lea.	Scioto.
10	<i>pustulosus</i> Lea.	Scioto.
10	<i>pyramidatus</i> Lea.	Scioto.
10	<i>radiatus</i> Lea.	Scioto.
10	<i>Rangianus</i> Lea.	Scioto.
10	<i>rectus</i> Lam.	Scioto.
10	<i>retusus</i> Lam.	Scioto.
10	<i>ridibundus</i> Say.	Ohio river.
10	<i>rubiginosus</i> Lea.	Scioto.
10	<i>solida</i> Lea.	Scioto.
10	<i>tenuissimus</i> Lea.	Scioto river.
10	<i>triangularis</i> Say (?)	Scioto.
10	<i>trigonus</i> .	Scioto.
10	<i>tuberculatus</i> .	Scioto.
10	<i>undulatus</i> Barnes.	Scioto.
11	<i>verrucosus</i> .	Scioto.
11	<i>Alasmodonta calceola</i> Lea.	Scioto river.
11	<i>Anodonta incerta</i> Lea.	Scioto river.

PART I.
AMERICAN AUTHORS.

B.—WRITINGS ON FOREIGN SPECIES.

BIBLIOGRAPHY

OF

NORTH AMERICAN CONCHOLOGY.

Bingley.—Useful Knowledge; or a Familiar and Explanatory Account of the various Productions of Nature, &c. &c., illustrated with numerous figures, &c.: by the Rev. WILLIAM BINGLEY, A. M., F. L. S., &c. In three volumes. Vol. iii, Animals. Philadelphia, 1818.

Pa.	Pl.	Fig.		
292			<i>Sepia officinalis.</i>	Europe.
			<i>Mya margaritifera.</i>	Arctic Circle.
294			<i>Mytilus margaritiferus.</i>	America and India.
296	v	79	<i>edulis.</i>	Indian Seas, &c.
297	v	77	<i>Ostrea edulis.</i>	Indian Seas, &c.
299	v	78	<i>Pecten maximus.</i>	
299	v	80	<i>Cardium edule.</i>	England, &c.
300			<i>Pinna nobilis.</i>	Mediterranean, &c.
301			<i>Helix pomatia.</i>	Europe.

Barnes.—Descriptions of five species of Chiton: by D. W. BARNES, M. A. (In Silliman's Journal, o. s., vol. vii, No. 1, p. 69, date of title, 1824.)

Pa.	Pl.	Fig.		
70			<i>Chiton Magellanicus Chemn.</i>	Coast of Peru.
70	iii	1	<i>striatus Barnes.</i>	Coast of Peru.
70	iii	2	<i>Peruvianus Lam.</i>	Coast of Peru.
			<i>C. crinitus Penn.</i>	
71	iii	3	<i>niger Barnes.</i>	Coast of Peru.
71	iii	4	<i>echinatus Barnes.</i>	Coast of Peru.

Ware.—Account of the Hybernation of the Snail (*Cochlea pomatia*) and of some other circumstances connected with the Physiology of that animal. Translated and abridged from "Mem. Phys. sur le Colimaçon, par B. Gaspard, M. D." (Magendie, Journ. de Phys. Exp. et Path.): by J. W. (JOHN WARE?) (From the Boston Journal of Philosophy and the Arts, vol. i, pp. 570-578. Boston, 1824.)

Eaton.—The Zoological Text-Book: by AMOS EATON. Albany, 1826.

[Many foreign species are described in this work. They have already been given on pp. 415-417.—W. G. B.]

Green.—New species of *Achatina*, with Remarks on the Ti, or the *Dracena Terminalis* of the Sandwich Islands: by JACOB GREEN, A. M. (From Contributions to the Maclurian Lyceum of the Arts and Sciences, vol. i, No. 2. Philadelphia, July, 1827.)

Pa.	Pl.	Fig.	
47	iv	1-4	<i>Achatina Stewartii</i> Green.
49	iv	5	<i>Oahuensis</i> Green.

Green.—Remarks on *Achatina Stewartii*: by J. GREEN, &c. (From same as last, vol. i, No. 3, p. 66. Jan. 1829.)

Page.		
87	<i>Achatina lugubris</i> .	<i>Helix luteolata</i> Fer.
	<i>Helix lugubris</i> Ch.	<i>vulpina</i> Fer.
	<i>lorata</i> Fer.	<i>Achatina Stewartii</i> Green.

Green.—Notes of a Naturalist. Remarks upon some of the Marine Animals which inhabit the North Atlantic Ocean: by JACOB GREEN, M. D. (In Doughty's Cabinet of Natural History, vol. i, 251. Philadelphia, 1830.)

Page.	
251	<i>Cleodora lanceolata</i> Per. and Le S.
252	<i>Velela Atlantica</i> Green = <i>V. mutica</i> ?
252	<i>Janthina globosa</i> ?

Rafinesque.—Two new bivalve fluviatile Shells of South America: by C. S. RAFINESQUE. (From the Atlantic Journal and Friend of Knowledge, No. 4. Philadelphia, 1832.)

Page.

154	Anodonta aperta Raf.	River Parana above Buenos Ayres.
154	paphos Raf.	River Parana above Buenos Ayres.

Rafinesque.—On three new genera of Land Shells from Buenos Ayres, in South America: by C. S. RAFINESQUE. (From same as last, No. 5, p. 165. 1833.)

Page.

165	Simphalompfix Raf. (n. g.)	
165	bonariensis Raf.	Buenos Ayres.
165	Stegompfix Raf. (n. g.)	
165	elegans (Cyclostoma) Raf.	Buenos Ayres.
165	Diplicaria Raf. (n. g.)	
165	bonariensis Raf.	Buenos Ayres.

Rafinesque.—On five new Fresh-Water Shells of Bengal and Assam, in Asia: by C. S. RAFINESQUE. (From same as last.)

Page.

165	Planorbis albescens Raf.	Page.	166	Melania tessula Raf.
165	Paludina vitula Raf.		166	costula Raf. Ganges.
165	fragilis Raf.			

Say.—Catalogue of Exotic Shells, &c., vide p. 274.

[I do not quote this list, as it is not strictly a work on descriptive Conchology.—W. G. B.]

Coates.—Reminiscences of a Voyage to India: by REYNELL COATES, M. D.

[Familiar notices are given of Mollusca. First published in the "Friend." Also published in Philadelphia, 1833, together with Godman's "Rambles of a Naturalist."—W. G. B.]

Hunt.—The Cabinet of Nature and Philosophy. Book the First—The Cabinet of Shells: by WILLIAM HUNT, M. D. With four plates. Boston and New York, 1833.

[This work contains descriptions of Classes, Orders, and Genera, with a figure of each genus, and a glossary. There are no descriptions of species.—W. G. B.]

Jay.—Catalogue, &c. &c.: by J. C. JAY, M. D. Vide pp. 46, 53, 64, 172, 212, 214, 215. Second edition. 1836.

[The American species are already given. The various editions must be consulted by the student for the numerous foreign species and their synonymy. Descriptions of the following are given.—W. G. B.]

Pa.	Pl.	Fig.		
81	i	1	<i>Pupa ringens</i> Jay.	Brazil.
81	i	4	<i>egregia</i> Jay.	Brazil.
81	i	2	<i>Megaspira Ruschenbergiana</i> Lea.	Brazil.
82	i	3	<i>Bulimus melanostomus</i> .	Brazil?
			<i>B. Dufresnii</i> Wood's Supplement.	
83	ii	5	<i>Cerithium magnum</i> Jay.	
83	ii	6	<i>Ranella</i> .	
85	iii	7	<i>Ampullaria angulata</i> Jay.	Mexico.
85	iii	8	<i>ochracea</i> Jay.	Spanish Main.
85	iii	9	<i>Helix speciosa</i> Jay.	
87	iv	10	<i>Natica imperforata</i> Jay.	
87	iv	11	<i>Neritina papillosa</i> Jay.	

Jay.—The same. Third edition. (See p. 218.)

Pa.	Pl.	Fig.		
111	i	1	<i>Bulimus cinctus</i> Jay.	Calcutta.
111	i	2, 3	<i>Turbo rotelliformis</i> Jay.	South Seas.
112	i	4	<i>Ampullaria Brownii</i> Jay.	Amazon.
112	i	5	<i>Storeria</i> Jay.	Amazon.
112	i	6, 7	<i>Helix planorbis</i> Jay.	Togobo Island.
113	i	12, 13	<i>Nucula Eightsi</i> Couth.	N. S. Shetland.
113	i	14, 15	<i>Venerupis Peruviana</i> Jay.	Peru.
113	i	16	<i>Fissurella nigrita</i> ? Sowb.	Tiger Bay.
114	i	21	<i>Helix denticulata</i> Jay.	
115	ii	5	<i>Cerithium marmoratum</i> Quoy & Guim.	New Holland?
115	ii	6	<i>Ranella pulchra</i> Gray.	East Indies.
			<i>Biplex perca</i> Perry.	

Pa.	Pl.	Fig.		
116	iii	8	<i>Ampullaria ochracea</i> Jay.	Spanish Main.
116	iii	9	<i>Helix speciosa</i> Jay.	
117	iv	10	<i>Natica fluctuata</i> Sowb.	
			<i>N. imperforata</i> Jay.	
117	iv	11	<i>Neritina granosa</i> Sowb.	Sandwich Isl'ds.
			<i>N. papillosa</i> Jay.	
119	vi	1	<i>Bulimus ustulatus</i> Jay.	
119	vi	2	<i>aurora</i> Jay.	
119	vi	3	<i>Achatina bicolor</i> Jay.	
120	vi	4	<i>Bulimus virgatus</i> Jay.	
120	vi	5	<i>porraceus</i> Jay.	
120	vi	6, 7	<i>Pandora striata</i> Quoy & Guim.	New Zealand.
121	vii	1	<i>Bulimus tristis</i> Jay.	Zanzibar.
121	vii	2, 3	<i>Conus rhododendron</i> Couth.	Australasia.
122	vii	4, 5	<i>Cyclostoma Cumingii</i> Sowb.	Tumaco Island.
122	vii	6	<i>Bulimus dubiosus</i> Jay.	Brazil?
122	vii	7, 8	<i>Cyclostoma multicarinata</i> Jay.	
122	vii	9, 10	<i>maculosa</i> Jay.	
123	vii	12, 13	<i>multilineata</i> Jay.	
124	viii, ix		<i>Dolium melanostomum</i> Jay.	Friendly Isl'ds.
126	x	1, 2	<i>Voluta armata</i> Lam.	

Ruschenberger.—A Voyage Round the World, including an Embassy to Muscat and Siam, in 1835-7: by W. S. W. RUSCHENBERGER, M. D., U. S. N. Philadelphia, 1838.

Page.

21	Notes on <i>Janthina fragilis</i> , &c.
447	<i>Tridacna gigas</i> &c.

Dr. J. C. Jay.—Reports on the Shells and Minerals presented by Dr. Brickerhoff to the New York Lyceum of Natural History. (From Silliman's Journal, o. s., vol. xxxviii, No. 1, pp. 198-201. Oct.-Dec., 1839.)

[A catalogue of species is given, without descriptions or localities. The paper is quoted by Carus and Engelmann, under the authorship of Brickerhoff.—W. G. B.]

Couthouy.—Vide p. 64.

Page.

383	<i>Thracia pubescens</i> Leach, &c.	<i>Mya pubescens</i> Pult.
	<i>Mya declivis</i> Pennant, &c.	<i>Thracia pubescens</i> Blainv.
	<i>Anatina declivis</i> Brown, &c.	<i>Anatina myalis</i> Lam.

Page.		Page.	
383	Thracia convexa Couthouy. <i>Mya declivis</i> Pennant. <i>convexa</i> Wood. <i>Anatina convexa</i> Turt. <i>Ligula distorta</i> Mont?	383	Thracia phaseolina Kien. <i>Amphidesma phaseolina</i> La.
383	corbuloides Desh. &c.	383	similis Couth. Rio Janeiro.
383	plicata Desh. &c.	384	Periploma trapezoides Des. <i>P. inaequivalvis</i> Schum. <i>Anatina trapezoida</i> Lam. <i>Osteodesma trapezoidalis</i> Bl.

Rafinesque.—On the three genera of Cephalopodes—Ocythoe, Todarus and Anisoctus. From the Good Book and Amenities of Nature; or Annals of Historical and Natural Sciences: by C. S. RAFINESQUE, A. M., Ph.D. Philadelphia, 1840.

Notes on—

Page.		Page.	
63	Ocythoe Raf.		<i>Loligo todarus</i> Raf.
63	Todarus Raf.	65	<i>Canopus</i> Raf. = Anisoctus Raf.
63	Anisoctus Raf.	65	Anisoctus punctatus Raf.
63	Ocythoe tuberculata Raf.	65	bicolor Raf.
64	Todarus argo Raf. Mediterranean Sea.		

[References are made to figures, but I find no plates in the copy belonging to the Philadelphia Academy.—W. G. B.]

Adams.—Catalogue of the genera and species of Recent Shells in the collection of C. B. ADAMS, A. M.

[The American species described in this Catalogue have already been given on page 325. I do not quote the foreign species, as no synonyms or descriptions are given, and rarely any particular locality.—W. G. B.]

Adams.—Notice of a fractured and repaired *Argonauta argo*: by C. B. ADAMS, Prof. &c. (From Silliman's Journal, n. s., vol. vi, p. 137. July, 1848.)

Hancock.—On the boring of Mollusca into Rocks and on the removal of Portions of their Shells: by A. HANCOCK. (Copied from Brit. Ass. Athen., No. 1086. In American Journ. Sc., n. s., vol. vii, p. 288. March, 1849.)

Adams.—Monograph of *Stoastoma*, a new genus of new operculated Land Shells: by C. B. ADAMS, A. M. Amherst, Mass. September, 1849.

Page.		Page.	
3	<i>Stoastoma Ad.</i>	10	<i>Chittyanum Ad.</i> Jamaica.
5	<i>Gouldianum Ad.</i> Jamaica.	11	<i>pisum Ad.</i> Jamaica.
6	<i>Blandianum Ad.</i> Jamaica.	12	<i>Lindsleyanum Ad.</i> Jamaica.
7	<i>Fadyenianum Ad.</i> Jamaica.	13	<i>Redfieldianum Ad.</i> Jamaica.
8	<i>Pfeifferianum Ad.</i> Jamaica.	14	<i>Jayanum Ad.</i> Jamaica.
9	<i>Cumingianum Ad.</i> Jamaica.	15	<i>Leanum Ad.</i> Jamaica.

Adams.—Monograph of *Vitrinella*, a new genus of new species of *Turbinidæ*: by C. B. ADAMS. Amherst, Mass. Feb. 1850.

Page.		
3	<i>Vitrinella Adams.</i>	
5	<i>hyalina Adams.</i>	Port Royal, Jamaica.
6	<i>interrupta Adams.</i>	Port Royal, Jamaica.
7	<i>megastoma Adams.</i>	Port Royal, Jamaica.
8	<i>tincta Adams.</i>	Port Royal, Jamaica.
9	<i>helicoidea Adams.</i>	Port Royal, Jamaica.

Adams.—Remarks on the Distribution of the Testaceous Mollusca of Jamaica: by Prof. C. B. ADAMS. (From American Association for the Advancement of Science, second meeting, p. 147. Boston, 1850.)

Redfield.—Catalogue of Operculated Land Shells in the collection of JOHN H. REDFIELD. New York, July 1st, 1850, and

Redfield.—Catalogue of Marginellidæ in the collection of JOHN H. REDFIELD. January 1st, 1851.

[No descriptions being given, I do not repeat these Catalogues.—W. G. B.]

Caillaud.—On the perforation of rocks by *Pholades*: by M. F. CAILLAUD. (From American Journal of Science, n. s., vol. xiii, p. 287. March, 1852. Notice of a paper in Comptes Rendus, November 24, 1851, p. 572.

Adams, Chitty, Bland.—Contributions to Conchology.
Conducted by C. B. ADAMS, Prof., &c. Vol. i. New York,
Oct. 1849—Nov. 1852.

No. 1.
Sept. 1849.
Page.

1 Descriptions of forty-four supposed new species and varieties of Oper-
culated Land Shells from Jamaica: by Prof. C. B. ADAMS.

	Page.
1 Cyclostoma Chittyi <i>Ad.</i>	9
1 spinulosum <i>Ad.</i>	9
2 aculeosum <i>Ad.</i>	9
2 amabile <i>Ad.</i>	9
3 amandum <i>Ad.</i>	10
3 Blandianum <i>Ad.</i>	10
3 variabile <i>Ad.</i>	10
4 concentricum <i>Ad.</i>	11
4 serriferum <i>Ad.</i>	11
4 decussatulum <i>Ad.</i>	11
4 mirandum <i>Ad.</i>	11
5 moribundum <i>Ad.</i>	12
5 intermedium <i>Ad.</i>	12
5 monstrosum <i>Ad.</i>	12
6 Wilkinsonii <i>Ad.</i>	13
6 avena <i>Ad.</i>	13
6 modestum <i>Ad.</i>	13
7 solidum <i>Ad.</i>	13
7 Augustæ <i>Ad.</i>	13
8 proximum <i>Ad.</i>	14
8 Newcombianum <i>Ad.</i>	14
8 nitens <i>Ad.</i>	14
8 tenuistriatum <i>Ad.</i>	14
	9 Cyclostoma ignilabre <i>Ad.</i>
	9 pisum <i>Ad.</i>
	9 hyacinthinum <i>Ad.</i>
	10 Redfieldianum <i>Ad.</i>
	10 tectilabre <i>Ad.</i>
	10 armatum <i>Ad.</i>
	11 muticum <i>Ad.</i>
	11 fecundum <i>Ad.</i>
	11 var. distinctum <i>Ad.</i>
	11 aurora <i>Ad.</i>
	12 mordax <i>Ad.</i>
	12 quinque-fasciatum <i>Ad.</i>
	12 crenulosum <i>Ad.</i>
	13 pauperatum <i>Ad.</i>
	13 Helicina palliata <i>Ad.</i>
	13 Hollandi <i>Ad.</i>
	13 macilenta <i>Ad.</i>
	13 albolabris <i>Ad.</i>
	14 citrino-labris <i>Ad.</i>
	14 megastoma <i>Ad.</i>
	14 Josephinæ (Trochatella).
	14 tenuis (Trochatella).

15 Catalogue of Operculated Land Shells which inhabit Jamaica.

15 Cyclostoma pulcrum <i>Wood.</i>	15 Cyclostoma Blandianum
15 fimbriatulum <i>Sowb.</i>	15 lincinellum <i>Lam.</i> [<i>Ad.</i>
15 Chittyi <i>Ad.</i>	15 variabile <i>Ad.</i>
15 aculeosum <i>Ad.</i>	15 concentricum <i>Ad.</i>
15 spinulosum <i>Ad.</i>	15 Grayanum <i>Ad.</i>
15 amandum <i>Ad.</i>	15 serriferum <i>Ad.</i>
15 Hillianum <i>Ad.</i>	15 pulchrius <i>Ad.</i>
15 amabile <i>Ad.</i>	15 articulatum <i>Sowb.</i>
15 scabriculum <i>Sowb.</i>	15 decussatulum <i>Ad.</i>
15 lincinum <i>Linn.</i>	15 mirandum <i>Ad.</i>
15 lit	15 moribundum <i>Ad.</i>

[Contributions to Conchology.]

Page		Page	
15	<i>Cyclostoma intermedium</i>	16	<i>Cyclostoma asperulum</i> <i>Sh.</i>
15	<i>monstrosum</i> <i>Ad.</i> [Ad.	16	<i>Helicina palliata</i> <i>Ad.</i>
15	<i>Wilkinsonii</i> <i>Ad.</i>	16	<i>Brownii</i> <i>Gray.</i>
15	<i>avena</i> <i>Ad.</i>	16	<i>Hollandi</i> <i>Ad.</i>
15	<i>modestum</i> <i>Ad.</i>	16	<i>macilenta</i> <i>Ad.</i>
15	<i>ambiguum</i> <i>Lam.</i>	16	<i>maxima</i> <i>Sowb.</i>
15	<i>thysanoraphe</i> <i>Sowb.</i>	16	<i>albolabris</i> <i>Ad.</i>
15	<i>pictum</i> <i>Humph.</i>	16	<i>citrino-labris</i> <i>Ad.</i>
15	<i>solidum</i> <i>Ad.</i>	16	<i>solitaria</i> <i>Ad.</i>
15	<i>labeo</i> <i>Lam.</i>	16	<i>affinis</i> <i>Ad.</i>
15	<i>Augustæ</i> <i>Ad.</i>	16	<i>megastoma</i> <i>Ad.</i>
15	<i>fascia</i> <i>Gray.</i>	16	<i>Gossei</i> <i>Pfr.</i>
15	<i>proximum</i> <i>Ad.</i>	16	<i>Adamsiana</i> <i>Pfr.</i>
15	<i>Newcombianum</i> <i>Ad.</i>	16	<i>depressa</i> <i>Gray.</i>
15	<i>nitens</i> <i>Ad.</i>	16	<i>lineata</i> <i>Ad.</i>
15	<i>xanthostoma</i> <i>Sowb.</i>	16	<i>neritella</i> <i>Lam.</i>
15	<i>tenuistriatum</i> <i>Ad.</i>	16	<i>aurantia</i> <i>Gray.</i>
15	<i>ignilabre</i> <i>Ad.</i>	16	<i>Jamaicensis</i> <i>Sowb.</i>
15	<i>pisum</i> <i>Ad.</i>	16	<i>costata</i> <i>Sowb.</i>
15	<i>Bronnii</i> <i>Ad.</i>	16	<i>Trochatella Tankervillei</i>
15	<i>fuscolineatum</i> <i>Ad.</i>	16	<i>pulchella</i> <i>Gray.</i> [Gray.
15	<i>album</i> <i>Lam.</i>	16	<i>Grayana</i> <i>Pfr.</i>
15	<i>hyacinthinum</i> <i>Ad.</i>	16	<i>Josephinæ</i> <i>Ad.</i>
15	<i>Banksianum</i> <i>Sowb.</i>	16	<i>tenuis</i> <i>Ad.</i>
15	<i>Redfieldianum</i> <i>Ad.</i>	16	<i>Lucidella aureola</i> <i>Gray.</i>
15	<i>tectilabre</i> <i>Ad.</i>	16	<i>Stoastoma Gouldianum</i>
15	<i>pauperatum</i> <i>Ad.</i>	16	<i>Blandianum</i> <i>Ad.</i> [Ad.
15	<i>crenulosum</i> <i>Ad.</i>	16	<i>Fadyenianum</i> <i>Ad.</i>
15	<i>quinquefasciatum</i> <i>Ad.</i>	16	<i>Pfeifferianum</i> <i>Ad.</i>
16	<i>Sauliæ</i> <i>Sowb.</i>	16	<i>Cumingianum</i> <i>Ad.</i>
16	<i>mordax</i> <i>Ad.</i>	16	<i>Chittyanum</i> <i>Ad.</i>
16	<i>maritimum</i> <i>Ad.</i>	16	<i>pisum</i> <i>Ad.</i>
16	<i>aurora</i> <i>Ad.</i>	16	<i>Lindsleyanum</i> <i>Ad.</i>
16	<i>fecundum</i> <i>Ad.</i>	16	<i>Redfieldianum</i> <i>Ad.</i>
16	<i>Adamsi</i> <i>Pfr.</i>	16	<i>Jayanum</i> <i>Ad.</i>
16	<i>muticum</i> <i>Ad.</i>	16	<i>Leanum</i> <i>Ad.</i>
16	<i>armatum</i> <i>Ad.</i>	16	<i>Truncatella costata</i> <i>Pfr.</i>
16	<i>Duffianum</i> <i>Ad.</i>	16	<i>Adamsi</i> <i>Pfr.</i>
16	<i>corrugatum</i> <i>Sowb.</i>	16	<i>succinea</i> <i>Ad.</i>
16	<i>Jamaicense</i> <i>Sowb.</i>		

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No. 2.
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17 Descriptions of supposed new species and varieties of Helicidæ from Jamaica: by Prof. C. B. ADAMS.

	Page.
17 <i>Geomelania</i> Pfr.	
18 <i>Jamaicensis</i> Pfr.	25 <i>Achatina nemorensis</i> Ad.
18 <i>minor</i> Ad.	25 <i>ligata</i> Ad.
18 <i>expansa</i> Ad.	25 <i>angiotoma</i> Ad.
18 <i>elegans</i> Ad.	25 <i>Ingallsiana</i> Ad.
19 <i>Cylindrella Beardsleyana</i>	26 <i>unicolor</i> Ad.
19 <i>Agnesiana</i> Ad. [Ad.]	26 <i>levis</i> Ad.
20 <i>alba</i> Ad.	26 <i>micans</i> Ad.
20 <i>costulata</i> Ad.	26 <i>striosa</i> Ad.
20 <i>montana</i> Ad.	26 <i>inuitata</i> Ad.
21 <i>Gravesii</i> Ad.	27 <i>Bulimus nitidiusculus</i> Ad.
21 <i>ambigua</i> Ad.	27 <i>pauperculus</i> Ad.
21 <i>rosea</i> Pfr.	28 <i>terebella</i> Ad.
21 var. <i>magna</i> Ad.	28 <i>anomalus</i> Ad.
21 var. <i>major</i> Ad.	28 <i>minimus</i> Ad.
21 <i>aspera</i> Ad.	28 <i>monodon</i> Ad.
22 <i>columna</i> Ad.	29 <i>mirabilis</i> Ad.
22 var. <i>intermedia</i> Ad.	29 <i>Helix patina</i> Ad.
22 <i>C. rosea</i> Ad. = <i>C. carnea</i> Ad.	29 <i>fluctuata</i> Ad.
22 <i>Cylindrella carnea</i> (var.)	29 <i>cara</i> Ad.
<i>cerina</i> .	30 <i>Chittyana</i> Ad.
22 <i>inornata</i> Ad.	30 <i>picturata</i> Ad.
22 <i>simplex</i> Ad.	30 <i>strangulata</i> Ad.
23 <i>Hydeana</i> Ad.	31 <i>torrefacta</i> Ad.
23 <i>C. cylindrus</i> Ad. = <i>C. rubra</i>	31 <i>epistylulum</i> Ad.
23 <i>Cylindrella similis</i> Ad. [Ad.]	31 <i>pila</i> Ad.
23 <i>tenella</i> Ad.	31 <i>lamellifera</i> Ad.
23 <i>tenera</i> Ad.	32 <i>graminicola</i> Ad.
24 <i>Achatina procera</i> Ad.	32 <i>MacMurrayi</i> Ad.
25 <i>elegans</i> Ad.	32 <i>munda</i> Ad.

No. 3.

33 Descriptions of supposed new Helicidæ from Jamaica.

33 <i>Helix tunicata</i> Ad.	35 <i>Helix brevis</i> Ad.
33 <i>sulphurea</i> Ad.	35 <i>simulans</i> Ad.
33 <i>virginea</i> Ad.	35 <i>fuscata</i> Ad.
34 <i>fuscocincta</i> Ad.	36 <i>diminuta</i> Ad.
34 <i>similis</i> Ad.	36 <i>apex</i> Ad.
34 <i>Hollandi</i> Ad.	36 <i>immunda</i> Ad.
35 <i>ambigua</i> Ad.	36 <i>perdepressa</i> Ad.
35 <i>Anthoniæ</i> Ad.	36 <i>angustispira</i> Ad.

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Page.		Page.	
37	<i>Helix inconspicua</i> Ad.	38	<i>Pupa exilis</i> Ad.
37	<i>Pupa Jamaicensis</i> Ad.	38	<i>Succinea latior</i> Ad.
37	<i>lata</i> Ad.	38	<i>angustior</i> Ad.
37	<i>hexodon</i> Ad.		
39 Catalogue of species and varieties of Helicidae which inhabit Jamaica.			
39	<i>Geomelania Jamaicensis</i>	39	<i>Cylindrella rubra</i> Ad.
39	<i>minor</i> Ad. [Pfr.]	39	<i>Dunkeri</i> Pfr.
39	<i>expansa</i> Ad.	39	<i>similis</i> Ad.
39	<i>elegans</i> Ad.	39	<i>tenella</i> Ad.
39	<i>Cylindrella pygmaea</i> Ad.	39	<i>tenera</i> Ad.
39	<i>Beardsleana</i> Ad.	39	<i>Achatina ligata</i> Ad.
39	<i>gracilis</i> Wood.	39	<i>Jamaicensis</i> Pfr.
39	<i>elongata</i> Chemn.	39	<i>procera</i> Ad.
39	<i>Agnesiana</i> Ad.	39	<i>Griffithii</i> Ad.
39	<i>alba</i> Ad.	39	<i>Phillipiana</i> Pfr.
39	<i>Gossei</i> Pfr.	39	<i>elegans</i> Ad.
39	<i>seminuda</i> Ad.	39	<i>venusta</i> Pfr.
39	<i>costulata</i> Ad.	39	<i>leucozonias</i> Walch.
39	<i>subula</i> Fer.	39	<i>Dominicensis</i> Gmel.
39	<i>alabastrina</i> Pfr. [Pfr.]	39	<i>curvilabris</i> Pfr.
39	<i>Humboldtiana</i> (var. β .)	39	<i>angiotoma</i> Ad.
39	<i>variegata</i> (var. γ .) Pfr.	39	<i>Ingallsiana</i> Ad.
39	<i>montana</i> Ad.	39	<i>unicolor</i> Ad.
39	<i>Gravesii</i> Ad.	39	<i>nemorensis</i> Ad.
39	<i>rosea</i> Pfr.	39	<i>Phillipsii</i> Ad.
39	var. <i>magna</i> Ad.	39	<i>arcuata</i> Pfr.
39	var. <i>major</i> Ad.	40	<i>vicina</i> Ad.
39	<i>ambigua</i> Ad.	40	<i>propinqua</i> Ad.
39	<i>cylindrus</i> Chemn.	40	<i>Gossei</i> Pfr.
39	<i>rubella</i> Ad.	40	<i>costulata</i> Ad.
39	<i>aspera</i> Ad.	40	<i>aberrans</i> Pfr.
39	<i>obesa</i> Ad.	40	<i>pellucens</i> Ad.
39	<i>brevis</i> Pfr.	40	<i>levis</i> Ad.
39	<i>columna</i> Ad.	40	<i>micans</i> Ad.
39	var. <i>intermedia</i> Ad.	40	<i>iota</i> Ad.
39	<i>nobilior</i> Ad.	40	<i>octona</i> Chemn.
39	<i>carnea</i> Ad.	40	<i>striosa</i> Ad.
39	var. <i>cerina</i> Ad.	40	<i>inuitata</i> Ad.
39	<i>sanguinea</i> Pfr.	40	<i>Bulimus minimus</i> Ad.
39	<i>Maugeri</i> Wood.	40	<i>striatellus</i> Ad.
39	<i>inornata</i> Ad.	40	<i>terebella</i> Ad.
39	<i>simplex</i> Ad.	40	<i>pauperculus</i> Ad.
39	<i>Hydeana</i> Ad.	40	<i>octonoides</i> Ad.

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Page.		Page.	
40	<i>Bulimus pallidus</i> Ad.	40	<i>Helix angustata</i> Fer.
40	<i>monodon</i> Ad.	40	<i>Cubensis</i> (var. S) Pfr.
40	<i>nitidiusculus</i> Ad.	41	<i>tunicata</i> Ad.
40	<i>læviusculus</i> Ad.	41	<i>sulphurea</i> Ad.
40	<i>subula</i> Pfr. (errata p. 48.)	41	<i>Mac Murrayi</i> Ad.
40	<i>rufescens</i> Gray.	41	<i>munda</i> Ad.
40	<i>erubescens</i> Pfr.	41	<i>tenerrima</i> Ad.
40	<i>immaculatus</i> Ad.	41	<i>graminicola</i> Ad.
40	<i>zebra</i> Müll.	41	<i>nemoraloides</i> Ad.
40	<i>anomalus</i> Ad.	41	<i>Gossei</i> Pfr.
40	<i>mirabilis</i> Ad.	41	<i>subconica</i> Ad.
40	<i>Pupa fallax</i> (?) Say.	41	<i>fuscocincta</i> Ad.
40	<i>lata</i> Ad.	41	<i>virginea</i> Ad.
40	<i>contracta</i> (?) Say.	41	<i>fuscula</i> Ad.
40	<i>tenuidens</i> Ad.	41	<i>immunda</i> Ad.
40	<i>hexodon</i> Ad.	41	<i>ptychodes</i> Pfr.
40	<i>servilis</i> Gould.	41	<i>perdepressa</i> Ad.
40	<i>Jamaicensis</i> Ad.	41	<i>depressa</i> Ad.
40	<i>exilis</i> Ad.	41	<i>sincera</i> Ad.
40	<i>striatella</i> (?) Fer.	41	<i>diminuta</i> Ad.
40	<i>Succinea angustior</i> Ad.	41	<i>apex</i> Ad.
40	<i>Sagra</i> Orb.	41	<i>inconspicua</i> Ad.
40	<i>latior</i> Ad.	41	<i>peraffinis</i> Ad.
40	<i>contorta</i> Ad.	41	<i>Boothiana</i> Pfr.
40	<i>Helix Martiniana</i> Pfr.	41	<i>turbiniformis</i> Pfr.
40	<i>peracutissima</i> Ad.	41	<i>Anthoniana</i> Ad.
40	<i>soror</i> Fer.	41	<i>angustispira</i> Ad.
40	<i>cara</i> Ad.	41	<i>ambigua</i> Ad.
40	<i>Chittyana</i> Ad.	41	<i>brevis</i> Ad.
40	<i>patina</i> Ad.	41	<i>Hollandi</i> Ad.
40	<i>fluctuata</i> Ad.	41	<i>arboreoides</i> Ad.
40	<i>acutissima</i> Lam.	41	<i>similis</i> Ad.
40	<i>Bainbridgii</i> Pfr.	41	<i>lamellifera</i> Ad.
40	<i>Spengleriana</i> Pfr.	41	<i>pila</i> Ad.
40	<i>lucerna</i> Müll.	41	<i>Cookiana</i> Gmel.
40	<i>Okeniana</i> Pfr.	41	<i>torrefacta</i> Ad.
40	<i>tridentina</i> Fer.	41	<i>epistyliulum</i> Ad.
40	<i>Bronnii</i> Pfr.	41	<i>epistylium</i> Müll.
40	<i>picturata</i> Ad.	41	<i>epistylloides</i> Fer.
40	<i>sinuata</i> Müll.	41	<i>simulans</i> Ad.
40	<i>strangulata</i> Ad.	41	<i>dioscorticola</i> Ad.
40	<i>anomala</i> Pfr.	41	<i>Proserpina nitida</i> Sowb.
40	<i>aspera</i> Fer.	41	<i>opalina</i> Ad.
40	<i>Jamaicensis</i> Chemn.		

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41 New Auriculidæ which inhabit Jamaica: by Prof. C. B. ADAMS.

41 *Melampus coronatus* Ad.41 *Pedipes ovalis* Ad.

42 Catalogue of Auriculidæ which inhabit Jamaica.

42 *Melampus coniformis* Brug.42 *flavus* Gmel.*Auricula monile* Lam.42 *pusillus* Gmel.*Auricula nitens* Lam.42 *Melampus coronatus* Ad.42 *cingulatus* Pfr.42 *Pedipes quadridens* Pfr.42 *ovalis* Ad.

42 Descriptions of supposed new species of Fresh Water Shells which inhabit Jamaica: by Prof. C. B. ADAMS.

42 *Paludina Jamaicensis* Ad.42 *Valvata pygmæa* Ad.43 *Planorbis Mac Nabianus*43 *Redfieldi* Ad. [Ad.43 *Haldemani* Ad.43 *Planorbis decipiens* Ad.44 *affinis* Ad.44 *Cyclas Veatleyi* Ad.44 *pygmæa* Ad.

45 Catalogue of Fresh Water Shells which inhabit Jamaica: by Prof. C. B. ADAMS.

45 *Melanopsis lineolata* Gray.45 *Melania spinifera* Ad.45 *Valvata pygmæa* Ad.45 *Paludina rivularis* Ad.45 *Jamaicensis* Ad.45 *Ampularia fasciata* (?) Lam.45 *Planorbis Mac Nabianus*45 *Redfieldi* Ad. [Ad.45 *Haldemani* Ad.45 *Planorbis dentiferus* Ad.45 *pallidus* Ad.45 *decipiens* Ad.45 *affinis* Ad.45 *Ancylus obscurus* (?) Hald.45 *Physa Soverbyana* Orb.45 *Limnæa umbilicata* Ad.45 *Cyclas pygmæa* Ad.45 *Veatleyi* Ad.

45 Remarks on the distribution of the Terrestrial and Fresh Water Mollusca which inhabit Jamaica: by Prof. C. B. ADAMS. October, 1849. Read before the American Association for the Promotion of Science, August 16, 1849 (and published also in their Proc. vol. ii, p. 147, 1856.)

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49 Remarks on the distribution of the Terrestrial and Fresh Water Mollusca which inhabit Jamaica—continued.

50 *Cyclostoma solidum* Ad. non Menke = *C. Jayanum* Ad.

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- 51 Remarks on the weight of the Shells of certain species of Colima-
cea: by Prof. C. B. Adams.

51	<i>Cyclostoma avena</i> Ad.
51	<i>Helicina lineata</i> Ad.
51	<i>depressa</i> Gray.
51	<i>affinis</i> Ad.
51	<i>Adamsiana</i> Pfr.
51	<i>solitaria</i> Ad.
51	<i>megastoma</i> Ad. (<i>aurantia</i> Gray in errata.)
51	<i>costata</i> Sowb.
51	<i>hæmastoma</i> Moric.
51	<i>Jamaicensis</i> Sowb.
52	<i>neritella</i> Lam.
52	<i>albolabris</i> Ad.
52	<i>maxima</i> Sowb.
52	<i>Trochatella tenuis</i> Ad.
52	<i>Josephinae</i> Ad.
52	<i>pulchella</i> Gray.
52	<i>Tankervillei</i> Sowb.
52	<i>Lucidella aureola</i> Gray.
52	<i>Stoastoma Blandianum</i> Ad.
52	<i>Redfieldianum</i> Ad.
52	<i>Leanum</i> Ad.
52	<i>Jayanum</i> Ad.
52	<i>Fadyenianum</i> Ad.

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52	<i>Stoastoma Gouldianum</i> Ad.
52	<i>Cumingianum</i> Ad.
52	<i>Pfeifferianum</i> Ad.
52	<i>pisum</i> Ad.
52	<i>Truncatella fusca</i> Phil.
52	<i>Adamsi</i> Pfr.
52	<i>scalaris</i> Mich.
52	<i>costellaris</i> (?) Risso.
52	<i>succinea</i> Ad.
52	<i>Pedipes quadridens</i> Pfr.
52	<i>Geomelania minor</i> Ad.
52	<i>Cylindrella pygmaea</i> Ad.
52	<i>tenera</i> Ad.
52	<i>Beardsleana</i> Ad.
52	<i>Achatina iota</i> Ad.
52	<i>aberrans</i> Pfr.
52	<i>Bulimus minimus</i> Ad.
52	<i>Helix apex</i> Ad.
52	<i>minuscule</i> Binney.
52	<i>pulchella</i> Müll.
52	<i>Pupa Jamaicensis</i> Ad.
52	<i>miliun</i> Gould.
52	<i>minutissima</i> Hartm.

Jan. 1850.

- 53 Description of a supposed new species of *Columbella*: by Prof. C. B.
ADAMS.

53 *Columbella ovuloides* Ad. Bahamas.

- 54 Notes on the synonymy of certain Marine Shells: by Prof. C. B.
ADAMS.

54	<i>Pleurotoma plicata</i> Ad. = P. plicosa Ad.	55	<i>Columbella monilifera</i> S. =
54	<i>P. decussata</i> Mac. = P. Macgillivrayi Ad.	55	<i>Pleurotoma monilifera</i> (<i>Columbella</i>) Sowb.
54	<i>P. violacea</i> Hinds = P. Reevii Ad.	55	<i>Pleurotoma alberti</i> Ad. = P. luteo-fasciata Ree.
54	<i>P. nigrescens</i> Ad. = P. ni- grescens Gray.	55	<i>P. trilineata</i> Ad. = P. tri- fasciata Gray.
54	<i>P. fascicular-</i>	55	<i>Mangelia albobittata</i> (<i>Pleurotoma</i>) Ad.
			<i>usca</i> (<i>Pleurotoma</i>) Ad.

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55	Mangella dubia (Pleurotoma) <i>Ad.</i>	55	<i>Buccinum concinnum</i> <i>Ad.</i> = Columbella.
55	multilineata (Pleurotoma) <i>Ad.</i> [<i>Ad.</i>	55	<i>Columbella purpurascens</i> <i>Ad.</i> = C. dormitor <i>Sowb.</i>
55	trilineata (Pleurotoma)	55	<i>Buccinum obesum</i> <i>Ad.</i> = Co- lumbella.
55	candidissima (Pleurotoma) <i>Ad.</i>		

Note on—

55 **Geomelania Jamaicensis** *Pfr.*

56 Descriptions of supposed new species of Marine Shells which inhabit Jamaica: by Prof. C. B. ADAMS.

56	Marginella nivea <i>Ad.</i>	62	Pleurotoma diminuta <i>Ad.</i>
56	alba <i>Ad.</i>		<i>P. quadrata</i> <i>Rve?</i>
56	abbreviata <i>Ad.</i>	62	decorata <i>Ad.</i>
56	fluctuata <i>Ad.</i>	63	albella <i>Ad.</i>
57	Mitra monilifera <i>Ad.</i>	63	pygmæa <i>Ad.</i>
57	albicostata <i>Ad.</i>	63	flavocincta <i>Ad.</i>
57	Columbella fenestrata <i>Ad.</i>	64	nodata <i>Ad.</i>
58	costulata <i>Ad.</i>	64	quadrilineata <i>Ad.</i>
58	Terebra Jamaicensis <i>Ad.</i>	64	fusiformis <i>Ad.</i>
58	Purpura aberrans <i>Ad.</i>	65	Mangella densestriata <i>Ad.</i>
59	Conus armillatus <i>Ad.</i>	65	muricoides <i>Ad.</i>
59	Triton parvus <i>Ad.</i>	65	biconica <i>Ad.</i>
60	pulchellus <i>Ad.</i>	66	lanceolata <i>Ad.</i>
60	Murex intermedius <i>Ad.</i>	66	crassicostata <i>Ad.</i>
60	pauperculus <i>Ad.</i>	66	brevis <i>Ad.</i>
60	Fusus nitens <i>Ad.</i>	66	vicina <i>Ad.</i>
61	Pleurotoma augustæ <i>Ad.</i>	67	Scalaria ligata <i>Ad.</i>
61	Jayana <i>Ad.</i>	67	Phasianella affinis <i>Ad.</i>
61	solida <i>Ad.</i>	67	brevis <i>Ad.</i>
62	fuscocincta <i>Ad.</i>	67	tesselata <i>Ad.</i>
62	maculata <i>Ad.</i>	68	concolor <i>Ad.</i>

No. 5.
Feb. 1850.

69 Descriptions of supposed new species of Marine Shells which inhabit Jamaica: by Prof. C. B. ADAMS.

69	Phasianella concinna <i>Ad.</i>	71	Littopa effusa <i>Ad.</i>
69	Trochus pulcher <i>Ad.</i>	71	obesa <i>Ad.</i>
70	Cingula (?) concinna <i>Ad.</i>	71	Littorina Jamaicensis <i>Ad.</i>
70	(?) solida <i>Ad.</i>	72	Chemnitzia latior <i>Ad.</i>
70	(?) conica <i>Ad.</i>	72	puncta <i>Ad.</i>

[Contributions to Conchology.]

- | | | | |
|-------|---------------------------------|-------|-------------------------------|
| Page. | | Page. | |
| 72 | <i>Chemnitzia obeliscus</i> Ad. | 74 | <i>Chemnitzia pusilla</i> Ad. |
| 73 | <i>subulata</i> Ad. | 74 | <i>flavocincta</i> Ad. |
| 73 | <i>levis</i> Ad. | 74 | <i>multicostata</i> Ad. |
| 73 | <i>substriata</i> Ad. | 75 | <i>reticulata</i> Ad. |
| 74 | <i>exilis</i> Ad. | | |
- Note on—
- 75 *Pholas corticaria* Sowb.
- 76 Descriptions of supposed new species and varieties of Terrestrial Shells which inhabit Jamaica: by Prof. C. B. ADAMS.
- | | | | |
|----|---------------------------------|----|-----------------------------------|
| 76 | <i>Helix ingens</i> Ad. | 81 | <i>Proserpina bidentata</i> Ad. |
| 77 | <i>valida</i> Ad. | 82 | <i>Cylindrella Greyana</i> Ad. |
| 77 | <i>fortis</i> Ad. | 82 | <i>lata</i> Ad. |
| 79 | <i>invalida</i> Ad. | 82 | <i>Hollandi</i> Ad. |
| 79 | <i>propenuda</i> Ad. | 83 | <i>augustæ</i> Ad. |
| 80 | <i>candescens</i> Ad. | 83 | <i>Achatina Blandiana</i> Ad. |
| 80 | <i>Foremaniana</i> Ad. | 83 | <i>puella</i> Ad. |
| 80 | <i>alveus</i> Ad. | 84 | <i>perplexa</i> Ad. |
| 80 | <i>columellata</i> Ad. | 84 | <i>Geomelania</i> Ad. |
| 81 | <i>Proserpina discoidea</i> Ad. | 84 | <i>Cyclostoma aculeosum</i> Ad. = |
| 81 | <i>pulchra</i> Ad. | | <i>C. Hillianum</i> Ad. |
- No. 6.
March, 1850.
- 85 Remarks on the origin of the Terrestrial Molluscs of Jamaica: by Prof. C. B. ADAMS.
- 87 Description of a new genus of Helicidæ from Jamaica: by Prof. C. B. ADAMS.
- | | | | |
|----|-----------------------------|----|--------------------------------|
| 87 | <i>Spiraxis</i> Ad. (n. g.) | 88 | <i>Spiraxis costulosus</i> Ad. |
| 88 | <i>aberrans</i> Ad. | | |
- 88 Description of *Jamaicia*, a new sub-genus of *Cyclostoma*: by Prof. C. B. ADAMS.
- 88 Notes on certain species of the Land Shells of Jamaica: by Prof. C. B. ADAMS.
- | | | | |
|----|-------------------------------|----|----------------------------------|
| 88 | <i>Helicina Hollandi</i> Ad. | 89 | <i>Geomelania Beardsleana</i> |
| 89 | <i>Lucidella aureola</i> Ad. | 89 | <i>pygmæa</i> Ad. [Ad.] |
| 89 | <i>granulosa</i> Ad. | 89 | <i>striosa</i> Ad. |
| 89 | <i>Cyclostoma Jayanum</i> Ad. | 89 | <i>Helicina hæmastoma</i> Moric. |
| 89 | <i>nigrilabre</i> Ad. | 89 | <i>aurantia</i> Gray. |
| 89 | <i>Chittyi</i> Ad. | 90 | <i>Cylindrella brevis</i> Ad. |
| 89 | <i>limbriata</i> Ad. | | <i>Achatina pellucens</i> Ad. |
| 89 | <i>Ge-</i> | | |

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90 Description of supposed new species of Land Shells which inhabit Jamaica: by Prof. C. B. ADAMS.

	Page.		Page.
90 <i>Cyclostoma virgineum</i> Ad.		96 <i>Geomelania media</i> Ad.	
90 <i>anomalum</i> Ad.		96 <i>vicina</i> Ad.	
91 <i>nodulosum</i> Ad.		96 <i>striosa</i> Ad.	
91 <i>retrosum</i> Ad.		96 <i>costulosa</i> Ad.	
92 <i>Shepardianum</i> Ad.		97 <i>conica</i> Ad.	
92 <i>papyraceum</i> Ad.		97 <i>pauperata</i> Ad.	
93 <i>Griffithianum</i> Ad.		97 <i>exilis</i> Ad.	
93 <i>granosum</i> Ad.		98 <i>Cylindrella costulosa</i> Ad.	
93 <i>Helicina dubiosa</i> Ad.		98 <i>Helix sulphurea</i> Ad.	
94 var. <i>intermedia</i> Ad.		98 <i>Dolium perdix</i> Ad.	
94 <i>Geomelania fortis</i> Ad.		98 <i>Helix picturata</i> Ad.	
94 <i>magna</i> Ad.		<i>H. sinuata</i> Born.	
95 <i>procera</i> Ad.		<i>sinuosa</i> Gmel.	
95 <i>gracilis</i> Ad.		100 <i>picturata</i> Ad.	
95 <i>typica</i> Ad.		100 <i>sinuata</i> Deless.	
96 var. <i>pygmæa</i> Ad.		<i>H. picturata</i> Ad.	
96 <i>affinis</i> Ad.			

No. 7.

April, 1859.

100 Descriptions of supposed new species of Land Shells which inhabit Jamaica: by Prof. C. B. ADAMS.

101 <i>Helicina ampliata</i> Ad.	104 <i>Achatina osculans</i> Ad.
101 <i>pusilla</i> Ad.	105 <i>Helix connectens</i> Ad.
101 <i>Cylindrella humilis</i> Ad.	105 <i>alligans</i> Ad.
102 <i>pusilla</i> Ad.	105 <i>amabilis</i> Ad.
102 <i>pupæformis</i> Ad.	106 <i>fuscolabris</i> Ad.
102 <i>procera</i> Ad.	106 <i>nobilis</i> Ad.
102 <i>Achatina costulosa</i> Ad.	107 <i>Redfieldiana</i> Ad.
103 <i>nitida</i> Ad.	107 <i>Blandiana</i> Ad.
103 <i>Gayana</i> Ad.	107 <i>osculans</i> Ad.
103 <i>similis</i> Ad.	108 <i>Proserpina pisum</i> Ad.
104 <i>tenera</i> Ad.	108 <i>Helix ingens</i> Ad.
104 <i>longispira</i> Ad.	108 <i>Cyclostoma Sauliæ</i> Sowb.
104 <i>gracillior</i> Ad.	108 <i>suturale</i> Sowb.

109 Descriptions of supposed new species of Marine Shells which inhabit Jamaica: by Prof. C. B. ADAMS.

109 <i>Narica</i> (?) <i>anomala</i> Ad.	110 <i>Odostomia solidula</i> Ad.
109 <i>Odostomia gemmulosa</i> Ad.	110 <i>Eulima gracilis</i> Ad.
109 <i>canaliculata</i> Ad.	110 <i>arcuata</i> Ad.
109 <i>ovuloides</i> Ad.	110 <i>conica</i> Ad.

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Page.		Page.	
110	<i>Eulima affinis</i> Ad.	117	<i>Cerithium modestum</i> Ad.
111	(?) <i>fulvo-cincta</i> Ad.	117	<i>melanura</i> Ad.
111	<i>Natica proxima</i> Ad.	117	<i>decoratum</i> Ad.
111	<i>Jamaicensis</i> Ad.	117	<i>dealbatum</i> Ad.
112	<i>Neritina ornata</i> Ad.	117	<i>nanum</i> Ad.
112	(?) <i>pusilla</i> Ad.	118	<i>mirabile</i> Ad.
112	<i>Rissoa subangulata</i> Ad.	118	<i>exiguum</i> Ad.
113	<i>aberrans</i> Ad.	119	<i>intermedium</i> Ad.
113	<i>scalaroides</i> Ad.	119	<i>versicolor</i> Ad.
114	<i>lævigata</i> Ad.	119	<i>megasoma</i> Ad.
114	<i>dubiosa</i> Ad.	120	<i>gemmulosum</i> Ad.
114	<i>pulchra</i> Ad.	120	<i>exile</i> Ad.
114	<i>multicostata</i> Ad.	120	<i>fusiforme</i> Ad.
115	<i>vitrea</i> Ad.	121	<i>pulchellum</i> Ad.
115	<i>lævissima</i> Ad.	121	<i>rugulosum</i> Ad.
115	<i>eulimoides</i> Ad.	122	<i>vicinum</i> Ad.
116	<i>striosa</i> Ad.	122	<i>latum</i> Ad.
116	<i>princeps</i> Ad.	122	<i>flavum</i> Ad.
116	(?) <i>melanura</i> Ad.	122	<i>albovittatum</i> Ad.

[For pp. 125-187, see the quotations of Ann. N. Y. Lyc.—W. G. B.]

No. 10.
Nov. 1851.

189 On the Nature and Origin of the species of the Terrestrial Mollusca in the Island of Jamaica: by Prof. C. B. ADAMS. (Also, Am. Ass. Adv. Sc. Proc., vol. iv, p. 29. 1851.)

194 Notice of a Reversed Cyclostoma. (Also in Proc. Am. Ass. Adv. Sc., vol. iv, p. 32. 1851.)

194 *Cyclostoma Jayanum* Ad.

194 On the value of the Shells of Mollusca for the purpose of distinguishing species and higher groups: by Prof. C. B. ADAMS. Also in Proc. Am. Ass. Adv. Sc., vol. iv, p. 180. 1851. And Eding. N. Phil. Journ. No. 51, p. 259. 1851. And Forr. Tagsber. No. 443, (Zool. Bd. ii, p. 217. 1852.)

203 Notes on—

203	<i>Cyclostoma Newcomb-</i>	204	<i>Helix pretiosa</i> Ad.
	<i>ianum</i> Ad.	204	<i>Ancylus obliquus</i> Ad. = A.
203	<i>Swiftianum</i> Ad.		<i>Chittyi</i> Ad.
203	<i>Troscheli</i> Pfr.	204	<i>Helix incerta</i> Ad.
204	<i>Tornatellina Cubensis</i> Pfr.	204	<i>lima</i> Ad.
204	<i>Helix Schroeteriana</i> Pfr.	204	<i>angustata</i> Ad.

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205 Remarks on certain Helices which are described and figured in the
Conchologia Iconica for Oct. 1851: by Prof. C. B. ADAMS.

205 *Helix patina* Ad.

Page.

205 *acuta* Lam.206 *Helix tumida* Pfr.205 *Chemnitziana* Pfr. = *H.*
fluctuata Ad.206 *tunicata* Ad.206 *Chittyana* Ad.205 *Helix ingens* Ad.206 *valida* Ad.205 *Bainbridgei* Pfr.206 *anomala* Pfr.206 *lucerna* Müll.

No. 11.
Oct. 1852.

207 Hints on the geographical distribution of Animals, with special
reference to the Mollusca: by Prof. C. B. ADAMS.

215 Catalogue of the Terrestrial Shells of St. Thomas, West Indies: by
THOMAS BLAND, F. G. S., London.

215 *Helix depicta* Grat.218 *Achatina octona* Chemn.216 *plicaria* Lam.*Bulimus octona* Lam.216 *squamosa* Fer. [Fer.

219 ? — (sp. ined.)

216 *Bulimus bæticatus* (Helix)219 ? *iota* Ad.216 *badius* (Helix) Fer.219 *Bulimus exilis* (Helix) Gmel.216 *Pupa decumana* (Helix) Fer.*B. Guadeloupensis* Brug.216 *Cylindrella gracilicollis*220 var *8 trifasciatus* Pfr.

(Helix) Fer.

220 *virgulatus* (Cochlogena)216 *Maugeri* (Helix) Wood.

Fer.

216 *Cyclostoma Antillarum* Sb.*B. Caribbeonum* Lam.*Megalomastoma Antillarum*221 ? *Dysoni* Pfr.

Gray.

221 ? — (sp. ined.)

216 *Newcomblanum* Ad.221 ? *subula* (Achatina) Pfr.*C. Swiftianum* Ad.*B. hortensis* Ad?*Troscheli* Ad.

221 ? — (sp. ined.)

Newcomblanum Ad.

222 ? — (sp. ined.)

217 *Helicina subfusca* Mke.222 *Pupa servilis*? Gould.*Hel. rotulina* Mich.222 *Succinea Sagra*? Orb.*castanea* Gould?222 *Helix incerta* (Helicostyla)*Hornbeckii* Phil.*H. lima* Rve.

[Fer.

subfusca Küst.223 *nemoralina* Pet.

217 ? — (sp. ined.)

223 ? — (sp. ined.)

217 *Cylindrella pallida* (Bra-

223 ? — (sp. ined.)

chypus) Guild.223 ? *peraffinis* Ad.

218 ? — (sp. ined.)

224 ? — (sp. ined.)

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Page.

224 On the Clausilæ of America: by THOMAS BLAND.

225 *Clausilia tridens* (Turbo)

Page.

Chemn.

Turbo labiatus Dillw.

C. tridens Sch.

Helix bicanaliculata

(*Cochlodina*) Fer.

Clausilia costulata Lam.

labiata Sowb.

Turbo costulatus Wood.

227 *Clausilia Peruana* Trosch.

228 *epistomium* Küst.

228 Catalogue of Terrestrial Shells collected by T. BLAND in New Granada, in 1851.

228 *Cyclostoma giganteum*

228 *Popayanum* Lea. [Gray.

228 *Quitense* Pfr.

229 *Helicina concentrica* Pfr.

229 *Bulimus Dennisoni* Ree.

229 *Powisianus* Pet.

229 *Gibbonius* Lea.

229 *castaneus* Pfr.

229 *maximus* Sowb.

229 *Bulimus oblongus* Müll.

230 *geometricus* Pfr.

230 *spectatus* Ree.

230 ? *linostoma* D'Orb.

230 ? *Pealianus* Lea.

230 *succinoides* Pet.

230 *nitelinus* Ree.

230 *Gruneri* Pfr.

No. 12.

231 Catalogue of Terrestrial Shells collected by T. BLAND in New Granada, in 1851—continued.

231 *Bulimus Lamarckianus* Pfr.

231 *Adamsoni* Gray.

231 *Streptaxis Candearia* (Helix) Pet.

231 *Helix Gibboni* Pfr.

231 *Oreas* Koch.

232 *Helix Oreas* (var.)

232 ? *atrata* Pfr.

232 *subplanata* ? (*Caracolla*)

232 ? *monile* Brod. [Pet.
H. planorbis Jay.

233 *Clausilia epistomium* Küst.

233 Descriptions of new species of *Corbula* from Jamaica: by Prof. C. B. ADAMS.

234 *Corbula Krebsiana* Ad.

234 *Blandiana* Ad.

235 *Dietziana* Ad.

236 *Swiftiana* Ad.

237 *Kjærliana* Ad.

237 *Barrattiana* Ad.

238 *Corbula Chittyana* Ad.

238 *Knoxiana* Ad.

239 *quadrata* Hinds.

240 *Newtoniana* Ad.

240 *fulva* Ad.

Notes on—

241 Journal de Conchyliologie.

242 Memorias sobre la Historia Natural de la Isla de Cuba.

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Nov. 1852

Page.

242 Catalogue of species of *Lucina* which inhabit the West Indian Seas:
by Prof. C. B. ADAMS.

	Page.
243 <i>Lucina Americana</i> Ad.	
243 <i>Anatellinoides</i> Ree.	245 <i>Lucina Janeirensis</i> Ree.
243 <i>Antillarum</i> Ree.	245 <i>pectinata</i> Ad.
244 <i>aurantia</i> Desh.	246 <i>pectinella</i> Ad.
244 <i>Chemnitzii</i> Phil.	246 <i>Pennsylvanica</i> (Venus)
244 <i>edentula</i> (Venus) Linn.	246 <i>pilula</i> Ad. [Linn.]
244 <i>exasperata</i> Ree.	247 <i>scabra</i> Ree.
244 <i>funiculata</i> Ree.	247 <i>soror</i> Ad.
245 <i>granulosa</i> Ad.	247 <i>tigerina</i> (Venus) Linn.
245 <i>imbricatula</i> Ad.	247 <i>virgo</i> Ree.
245 <i>Jamaicensis</i> (Venus) Ch.	

Lea.—A synopsis of the Family of Naiades, &c. &c., vide pp.
52, 220, 230.

[I have not repeated the numerous foreign species. For these and
their synonymy the student must consult the work itself.—W. G. B.]

Conrad.—Description of the Fossils of Syria, collected in the
Palestine Expedition. Recent Shells by T. A. CONRAD, p.
228. (From Official Report of the United States Expedition to
explore the Dead Sea and the River Jordan: by W. F.
LYNCH, U. S. N.; published at the National Observatory by
authority of the Hon. W. A. Graham, Secretary of the Navy.
Baltimore, 1852.)

Pa.	Pl.	Fig.		
228	xxii	128 ¹	<i>Helix lithophaga</i> Conr.	Wady en-Nar. [Jezzin.
228	xv	80	<i>ligata</i> Mull.	Between Mukhtarrah &
229	xxii	129 ²	<i>Carocolla tuberculosa</i> Conr.	Shore of Dead Sea.
229	xxii	130 ³	<i>Paludina Phialensis</i> Conr.	Lake Phiala.

¹ Fig. 133.² Fig. 132.³ Fig. 131.

Gould.—The Mollusca and Shells of the United States Exploring Expedition under Com. Wilkes: by A. A. GOULD, M. D. Boston, 1852. (Plates, 1856, according to title page, though they really appeared in 1861.)

[The following are the foreign species. For the American, vide p. 417. W. G. B.]

Pa.	Fig.		
1		Anchorocophorus Gould (n. g.)	
2	6-6 ^c	bitentaculatus Gould.	
		<i>Limax bitentaculatus</i> Quoy.	
4	3-3 ^b	Limax olivaceus Gould.	Paramatta, N. S. W.
5	4, 4 ^a	fuliginosus Gould.	Bay of Islands, N. Z.
5	5-5 ^b	Vaginulus Taunaisii Fer.	Rio Janeiro.
6	7-7 ^d	Vitrina ruivensis Gould.	Pico de Rufivo, Madeira.
7	12-12 ^c	marcida Gould.	Roche de Empeña, Mad.
9	8-8 ^b	nitida Gould.	Roche de Empeña, Mad.
10	11-11 ^b	robusta Gould.	New South Wales.
10	9, 9 ^a	caperata Gould.	Kauai.
11	10-10 ^c	tenella Gould.	Kauai.
12	13	furva Gould.	St. Anna, Madeira.
		<i>Helix furva</i> Lowe.	
13	31-31 ^c	Succinea explanata Gould.	Kauai.
13	16-16 ^b	putamen Gould.	Upolu.
15	14-14 ^c	rotundata Gould.	Oahu.
16	15-15 ^b	cepulla Gould.	Hawaii.
17	18-18 ^b	tumbalis Gould.	Hawaii, &c.
18	19, 19 ^a	numerosa Gould.	Tahiti.
19	26-26 ^d	inrundibuliformis Gould.	Tahiti, &c.
20	28-28 ^b	procera Gould.	Tahiti, &c.
21	17, 17 ^a	vesicalis Gould.	Hawaii.
21	27-27 ^b	pudorina Gould.	Tahiti, &c.
22	25-25 ^b	venusta Gould.	Hawaii, &c.
23	24-24 ^b	modesta Gould.	Tahiti, &c.
24	22-22 ^c	Magellanica Gould.	Tierra del Fuego.
25	23-23 ^b	Manuana Gould.	Manua.
26	30-30 ^b	caduca Mighels.	Sandwich Islands.
27	20-20 ^b	canella Gould.	Maui.
28	21-21 ^b	crocata Gould.	Upolu, &c.
29	66, 66 ^a	Nanina rubricata Gould (<i>Helix</i>).	Lebouka.
31	68-68 ^b	lurida Gould (<i>Helix</i>).	Feejee Islands.
31	69-69 ^b	casca Gould.	Feejee Islands.
		<i>Helix calva</i> Gould.	
32		fricata Gould.	New South Wales.

[Gould, Exploring Expedition.]

Pa.	Fig.		
33	67-67 ^b	Nanina scorpis Gould (<i>Helix</i>).	Feejee Islands.
34	65-65 ^c	irradiata Gould (<i>Helix</i>).	New Zealand.
35	47	Helix intaminata Gould.	Mangsi.
38	45-45 ^c	spirillus Gould.	Lima.
39	34-34 ^c	lyrata Gould.	Orange Harbor, Tierra d.
40	46-46 ^c	pauillus Gould.	East Maui. [Fuego.
		<i>Helix pusillus</i> Gould.	
41	44-44 ^c	zig-zag Gould.	Taiaimi, New Zealand.
42	33-33 ^c	saxatilis Gould.	Orange Harbor, Tierra d.
43	73-73 ^c	cicercula Gould.	Hawaii. [Fuego.
44	72-72 ^c	cryptoportica Gould.	Oahu.
45	60-60 ^c	pertenuis Gould.	Metia Island.
46	59-59 ^c	cultrata Gould.	Tahiti, &c.
47	61-61 ^c	exæquata Gould.	Kauai.
48	63-63 ^c	calculosa Gould.	Tahiti.
48	62-62 ^c	subtilissima Gould.	Maui.
49	48-48 ^c	gradata Gould.	Tonga Island.
50	64-64 ^b	fornicata Gould.	Kauai.
50	49-49 ^c	rubiginosa Gould.	Kauai.
51	52-52 ^m	bursatella Gould.	Tahiti, &c.
53	50-50 ^c	obolus Gould.	Tahiti.
54	51-51 ^d	dædalea Gould.	Tahiti, &c.
55	52*-52* ^c	hystrix Mighels.	East Maui.
		<i>H. setigera</i> Gould.	
56	52†-52† ^c	stellula Gould.	Maui.
57	56-56 ^c	Cressida Gould.	Society Islands, &c.
58	55-55 ^c	troilus Gould.	Upolu, &c.
60	57-57 ^b	Eurydice Gould.	Tongataboo.
61	58-58 ^b	trochiformis Fer.	Eimeo, &c.
62	53-53 ^b	tumulus Gould.	Feejee Islands.
63	54	tentoriolum Gould.	Upolu.
64	32, 32 ^a	nitidiuscula Sowb.	Madeira.
64	43-43 ^b	gulos Gould.	Mawana, N. S. Wales.
64		pedestris .	
71	70, 70 ^a	Streptaxis contusa Fer.	
		<i>Helix contundata</i> Fer.	
		<i>contusa</i> Fer.	
72	82, 82 ^a	Bulimus morosus Gould.	Feejee Islands.
72	84, 84 ^a	elobatus Gould.	Feejee Islands.
73	83, 83 ^a	pruninus Gould.	Madeira Island.
74	79, 79 ^a	prolatus Gould.	Santiago, Chili.
75	80, 80 ^a	ciliatus Gould.	Organ Mts., Brazil.
76	87-87 ^b	juncus Gould.	Tahiti, &c.

[Gould, Exploring Expedition.]

Pa.	Fig.		
77	86, 86 ^a	Bulimus egregius Pfr.	Rio Janeiro.
		<i>B. hybridus</i> Gould.	
78	75	auris-leporis Brug.	Rio Janeiro.
		<i>B. lagotis</i> Mke.	
		<i>Auricula leporis</i> Mke.	
		<i>Helix auris-leporis</i> Fer.	
		<i>Pupa auris-leporis</i> .	
		<i>Stenostoma auritura</i> Spix.	
		<i>Ostomus lagotis</i> Beck.	
78	76, 76 ^a	proteus Br.	Chili.
		<i>B. sordidus</i> Lam.	
		<i>Buliminus proteus</i> Beck.	
79	81-81 ^b	Chilensis Lam.	Chili.
		<i>Achatina Chilensis</i> Less.	
		<i>Bulimus granulosa</i> Br.	
		<i>Bulinulus graniger</i> Beck.	
79	85-85 ^b	Shongii Less.	Bay of Islands, N. Z.
80	77	fulguratus Jay.	Feejee Islands.
81	78	malleatus Jay.	Feejee Islands.
81	88, 88 ^a	Partula conica Gould.	Upolu, &c.
82	89, 89 ^a	zebrina Gould.	Upolu, &c.
83	90, 90 ^a	pusilla Gould.	Metia Island.
84	91	Taheitana Brug.	Honolulu.
		<i>P. auriculata</i> Brod.	
		<i>Bulimus auriculatus</i> Pfr.	
85	92	varia Brod.	
		<i>Bulimus varius</i> Pfr.	
85	93	Vanikorensis Quoy & Quim. (<i>Helix</i>).	
		<i>Bulimus Vanikorensis</i> Desh.	
85	94, 94 ^a	Achatinella marmorata Gould.	Maui.
86	95	nubilosa Gould.	Maui.
87	96, 96 ^a	ellipsoidea Gould.	Maui.
87	100, 100 ^a	acuminata Gould.	Kauai.
88	97, 97 ^a	accincta Mighels.	Oahu.
		<i>A. Sandwicensis</i> .	
89	98, 98 ^a	guttula Gould.	Maui.
90	99, 99 ^a	cerealis Gould.	Waianai, Oahu.
91	105-105 ^b	Balea peregrina Gould.	New Zealand.
91	101	Megaspira elata Gould.	Brazil.
		<i>Bulimus elatior</i> (var. γ)	
92	103-103 ^b	Vertigo tantilla Gould.	[Pfr. Tahiti.
93	104-104 ^a	Pupa peponum Gould.	Oahu, &c.
94	114-114 ^a	Helicina uberta Gould.	Oahu, &c.
		<i>H. constricta</i> Pfr.	

[Gould, Exploring Expedition.]

Pa.	Fig.		
95	112	Helicina Maugeriae Gr.	Tahiti, &c.
95	111, 111 ^a	beryllina Gould.	Feejee Islands.
96	113-113 ^c	pallida Gould.	Feejee Islands.
97	106-106 ^c	fulgora Gould.	Manua.
98	107-107 ^b	musiva Gould.	Manua, &c.
99	108-108 ^c	laciniosa Mighels.	Kauai, &c.
99	109-109 ^c	trochlea Gould.	Metia Island.
100	110-110 ^c	multicolor Gould.	Tahiti, &c.
101	116, 116 ^a	Cyclostoma tiara Gould.	Upolu.
102	117-117 ^b	strigatum Gould.	Upolu.
103	118-118 ^b	plicatum Gould.	Upolu.
104	119, 119 ^a	obligatum Gould.	Metia Island.
105	124-124 ^b	diatretum Gould.	Feejee Islands.
105	121-121 ^b	roseum Gould.	Feejee Islands.
106	120-120 ^b	terebrale Gould.	Tahiti, &c.
107	122, 122 ^a	vallatum Gould.	Tonga Island.
108	123-123 ^b	scitulum Gould.	Tahiti, &c.
109	126-126 ^b	Truncatella Vitiana Gould.	Feejee Islands.
110	125-125 ^b	aurantia Gould.	Mangsi Island.
110	127-127 ^b	porrecta Gould.	Tahiti.
111	128-128 ^b	rostrata Gould.	Rio Janeiro.
114	133	Planorbis kermatoides D'Or.	Lima.
114		ferrugineus Spix.	
115	134-134 ^b	Physa venustula Gould.	Lima.
116	136-136 ^b	tabulata Gould.	Bay of Islands, N. Z.
117	137, 137 ^a	gibbosa Gould.	Paramatta, N. S. W.
118	139-139 ^b	sinuata Gould.	Feejee Islands.
118	140-140 ^b	reticulata Gould.	Sandwich Islands.
120	135	rivalis Pot. & Mich.	Lima.
122	142-142 ^b	Limnea volutata Gould.	Oahu.
123	145, 145 ^a	Dombeya fasciata Gould.	Chili.
124	143, 143 ^a	obovata Gould.	Chili.
124	144, 144 ^a	fluminea D'Orb.	Patagonia.
		<i>Chilina fluminea</i> Gray.	
		<i>Voluta fluminea</i> Maton.	
125	495-495 ^b	Ancylus aduncus Gould.	Madeira.
126	150-150 ^b	Amnicola badia Gould.	Tipoona, New Zealand.
127	151-151 ^b	gracilis Gould.	Tipoona, New Zealand.
128	147, 147 ^a	Ampullaria columellaris Gld.	Mayras, Peru.
129	149-149 ^b	Amnicola corolla Gould.	Banks Pen, New Zeal'd.
		<i>Melania corolla</i> Gould.	
130	152-152 ^b	Cingula Peteningsis Gould.	Rio de Janeiro.
130	146-146 ^b	Melanopsis Zeylandica Gould.	New Zealand.
132	154-154 ^c	cybele Gould.	Feejee Islands, &c.

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Page.	Fig.		
133	153-153 ^b	Melanopsis tetrica Gould.	Feejee Islands, &c.
133	155-155 ^b	terpsichore Gould.	Feejee Islands, &c.
134	156-156 ^a	scipio Gould.	Feejee Islands, &c.
136	159-159 ^a	lutosa Gould.	Upolu.
137	161-161 ^b	corporosa Gould.	Tahiti.
138	157-157 ^b	Vainafa Gould.	Upolu.
139	162, 162 ^a	furforosa Gould.	Manilla.
140	158-158 ^b	scitula Gould.	Upolu.
142	160-160 ^a	perpinguis Hinds.	Feejee Islands, &c.
145	170-170 ^b	Cerithium sordidulum Gould.	
146	169-169 ^b	invaginatum Gould.	Feejee Islands.
147	167-167 ^b	aduncum Gould.	Mindanao.
148	168, 168 ^a	irroratum Gould.	
148	174-174 ^d	cælatum Couth.	Orange Har., T. d. Puego.
150	172-172 ^b	pusillum Gould.	Sandwich Islands.
151	171-171 ^b	egenum Gould.	Wilson's Island.
152	173-173 ^b	janthinum Gould.	Clermont-Tonnere.
153		Pelex Gould (n. g.)	
153	176-176 ^d	lateralis Gould.	Wangarara, N. Zealand.
155	177-177 ^b	Navicella Freycineti Recl.	Macassar.
156	178, 178 ^a	porcellana Chemn.	
		<i>N. elliptica</i> Lam.	
156	187-187 ^b	Neritina cholericæ Chemn.	Feejee Islands.
157	191, 191 ^a	porcata Gould.	Samoa Island.
158	188, 188 ^a	chrysocolla Gould.	Upolu.
159	192, 192 ^a	amœna Gould.	
160	190, 190 ^a	siderea Gould.	Upolu.
161	182, 182 ^a	canalis Sowb.	Society Island.
161	179	granosa Sowb.	Sandwich Islands.
161	181	Taitensis Soul.	
162	180	Lamarckii Desh.	
		<i>N. cariculata</i> Sowb.	
162		Nuttallii Recl.	
163	183	gagates Desh.	
163	183	undata Desh.	
		<i>Clithon undatus</i> Less.	
		<i>N. spinosa</i> Sowb.	
163	184, 184 ^a	cornea Linn.	Feejee Islands.
		<i>N. unguicularis</i> Less.	
		<i>rubra</i> Chemn.	
		<i>delia</i> Chemn.	
164	185, 185 ^a	<i>Recl.</i>	Samoa and Friendly Is.
164	182		Tahiti.

SECTION B.]

NORTH AMERICAN CONCHOLOGY.

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Page.	Fig.		
165		<i>Neritina Turtoni</i> Ree.	Feejee Islands.
165	197, 197 ^a	<i>N. helvola</i> Gould.	
166	195, 195 ^a	<i>Nerita musiva</i> Gould.	
167		<i>crassa</i> Gould.	
167	194, 194 ^a	<i>plicata</i> Linn.	
167	196, 196 ^a	<i>albicilla</i> Linn.	
169	198-198 ^c	<i>undata</i> Linn.	
170	199-199 ^b	<i>Turbo setosus</i> Chemn.	Clermont Tonnere.
170	200	<i>argyrostomus</i> Chemn.	
171	201, 201 ^a	<i>sparverius</i> Gmel.	
171	212, 212 ^a	<i>petholatus</i> Linn.	
171	202-202 ^b	<i>niger</i> Gray.	
173	203-203 ^d	<i>confragosus</i> Gould.	Callao and Valparaiso.
174	204-204 ^c	<i>sirius</i> Gould.	Dean's Island, Paumotu
175	221-221 ^c	<i>laciniatus</i> Gould.	New Holland.
175	210-210 ^c	<i>Trochus bicrenatus</i> Gould.	Manilla.
176	220-220 ^b	<i>gradatus</i> Gould.	
177	209-209 ^b	<i>circumsutus</i> Gould.	
178	216-216 ^c	<i>jucundus</i> Gould.	Madagascar?
179	217-217 ^c	<i>elisus</i> Gould.	New Zealand.
180	205-205 ^b	<i>acinosus</i> Gould.	Singapore.
181	206-206 ^b	<i>pruninus</i> Gould.	New Zealand.
182	211	<i>texturatus</i> Gould.	Auckland Island.
182	213	<i>ater</i> Less.	
183		<i>Araucanus</i> D'Orb.	Valparaiso and Callao.
183	223, 223 ^a	<i>moestus</i> Jonas.	Valparaiso, &c.
184	215-215 ^b	<i>colubrinus</i> Gould.	
186	208-208 ^b	<i>tantillus</i> Gould.	Funchal.
187	218-218 ^c	<i>pupillus</i> Gould.	Sandwich Islands.
188	219-219 ^c	<i>amœnus</i> Gould.	New Zealand.
189	224-224 ^d	<i>spurcus</i> Gould.	Feejee Islands.
190	225-225 ^c	(<i>Monodonta</i>) <i>atropurpureus</i> Tutuila.	Feejee Islands.
191	222-222 ^b	<i>instrictus</i> Gld.	Madeira Island.
192	227, 227 ^a	<i>rotellinus</i> Gld.	Pacific Ocean.
192	228-228 ^c	(<i>Bembicium</i>) <i>squamiferus</i> Koch.	
193	230-230 ^b	<i>Margarita Magellanica</i> Gld.	Orange Har., T. d. Fuego.
194	229-229 ^c	<i>persica</i> Gould.	Cape Horn.
195	252, 252 ^a	<i>conica</i> D'Orb.	Patagonia.
196	226-226 ^c	<i>Litiopa decussata</i> Gould.	[30' W.
198	240-240 ^b	<i>Solarium egenum</i> Gould.	Lat. 37° 40' N., long. 54°
200	239-239 ^b	<i>Littorina caliginosa</i> Gould.	New Zealand.
202	235, 235 ^a	<i>acuminata</i> Gould.	Tierra del Fuego.
202	234, 234 ^a	<i>obesa</i> Sowb.	Mangsi Island.
		<i>pyramidalis</i> Quoy & Gaim.	Clermont Tonnerre, &c.

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Page.	Fig.		
203	233, 233 ^a	<i>Littorina grandinosa</i> Desh. <i>Trochus grandinosa</i> Chemn. <i>bullatus</i> Martyn. <i>Monodonta papillosa</i> Lam.	
203		<i>Peruviana</i> Gray. <i>Turbo zebra</i> Wood. [Lam. <i>Phasianella Peruviana</i>	Valparaiso, &c.
203	251-251 ^b	<i>Planaxis lineolatus</i> Gould.	Wilson's Island.
204	242-242 ^b	<i>Melampus mucronatus</i> Gould.	Raraka Island.
205	245-245 ^b	<i>Scalaria gracillenta</i> Gould.	Mangsi Island.
206	244-244 ^b	<i>texturata</i> Gould.	
206		<i>australis</i> Lam.	
207	246-247	<i>Stylifer acicula</i> Gould.	Feejee Islands.
208	248, 248 ^a	<i>Haliotis crispata</i> Gould.	New Holland.
209	249-249 ^b	<i>Stomatella tumida</i> Gould.	Singapore, &c.
210	250-250 ^b	<i>decolorata</i> Gould.	Mangsi Island.
213	255, 255 ^a	<i>Natica dilecta</i> Gould.	Rio Negro, Patagonia.
215	257, 257 ^a	<i>soluta</i> Gould.	South America.
215		<i>Ampullacea Busbyi</i> Gould. <i>Helix busbyi</i> Gray.	New Zealand.
216	259-259 ^a	<i>Sigaretus antarcticus</i> Couth.	Orange Harbor.
217	260-260 ^b	<i>prætenus</i> Gould.	Orange Harbor.
217	261-261 ^a	<i>Rissoa ambigua</i> Gould. <i>Pyramidella ambigua</i> Gld.	Clermont Tonnerre.
218	263-263 ^b	<i>Tornatella bullata</i> Gould.	Patagonia.
220	267, 267 ^a	<i>Bulla parallela</i> Gould.	
220	264	<i>bifasciata</i> Mart. & Ch. <i>B. ampulla</i> (var.) Linn.	Feejee Islands.
221	266, 266 ^a	<i>rubiginosa</i> Gould.	Rio de Janeiro.
222	265-265 ^a	<i>diaphana</i> Gould.	Rio de Janeiro.
223	268	<i>Aplysia pulmonica</i> Gould.	Tutuila.
223	269, 269 ^a	<i>Bursatella lacinulata</i> Gould.	Rio de Janeiro.
224		<i>Stylocheilus</i> Gould. (n. g.)	
225	270-270 ^b	<i>lineolatus</i> Gould.	Honolulu.
226	271	<i>quercinus</i> Gould.	Feejee Islands.
226	272	<i>Janthina exigua</i> Lam.	Lat. 18° 20' S., long. 132°
227	273	<i>fragilis</i> .	[W.]
227	276	<i>Pyrula deformis</i> Lam. [Kelm. Tutuila. <i>Pyrgula abbreviata</i> (var.)	
227	277-277 ^b	<i>Fusus Geversianus</i> Pullen. <i>Buccinum Fabricianum</i> Mart. Roch.	
228	278		Orange Harbor.
229			Orange Harbor.

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Page.	Fig.		
230	280	Fusus decolor Phil.	Orange Harbor.
230	281, 281 ^a	plumbeus Phil.	
231	282-282 ^b	liratus Couth.	Orange Harbor.
232	283, 283 ^a	incisus Gould.	New Zealand?
235	286, 286 ^a	sublatus Gld. [sus Gld.	
236	287, 287 ^a	Murex (Trophon) fructico-	
237	288, 288 ^a	Monoceros imbricatum Lam.	Orange Harbor.
		<i>Buccinum calcar</i> Martyn.	
		<i>Monoceros breve</i> Sowb.	
237	290, 290 ^a	Turbinella cornigera Lam.	
238	289	amplustre Kien.	Honden Island.
		<i>Buccinum amplustre</i> Mart.	
		<i>Murex amplustre</i> Chemn.	
238	291	armata Brod.	Honden Island.
239	292	Triton variegatum Lam.	Tutuilla, &c.
		<i>Murex tritonis</i> Linn.	
239	295	tuberosum Lam.	Lebuka.
240		productum Gould.	Pacific.
		<i>T. tuberosum</i> Rumph. &c.	
240	293	anus Lam.	Lebuka.
240	294, 294 ^a	distortum Sch. & Wagn.	Paumotu Island.
241	298-298 ^c	cancellatum Lam.	
		<i>Murex Magellanicus</i> Chemn.	
242	299	Ranella bufonia Gmel.	Gardner's Isl., Paumotu
242	300, 300 ^a	gyrinus Linn.	Tutuilla. [Isl.
		<i>Murex gyrinus</i> Linn.	
		<i>R. ranina</i> Lam.	
242	301-301 ^b	vexillum Sowb.	Orange Har., T. d. Fuego.
243	302, 302 ^a	ventricosa Brod.	
244	309, 309 ^a	Purpura tæniata Powis.	Honden Island.
245		armigera Lam.	Paumotu Group.
245		scobina Quoy & Gaim.	New Zealand.
246		succincta Lam.	
		<i>Buccinum orbita</i> Chemn.	
		<i>P. orbita</i> Sowb.	
246	304, 304 ^a	elongata Blainv.	Metia Island.
		<i>P. fenestrata</i> Quoy & Guim.	
246	306	violacea Kien.	Feejee Islands.
		<i>Purpula neritoidea</i> Lam.	
		<i>Purpura neritoidea</i> Qu. & G.	
247	305	Ricinula tuberculata Blainv.	Paumotu Group.
247		horrida Lam.	Paumotu Group.
247	307	arachnoides Lam.	Paumotu Group.
248	308	clathrata Lam.	Paumotu Group.

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Page.	Fig.		
248	312, 312 ^a	Pleurotoma seminifera Gld.	
249	311, 311 ^a	tigrina Lam.	Upolu.
250	313-313 ^a	Mangelia cithara Gould.	Feejee Islands.
250	314-314 ^b	Terebra crenulata Linn.	
251		dimidiata Linn.	
251	315	Babylonia Lam.	
251	316	lævigata Gray.	
251	317	subulata Linn.	
251	318	cærulescens Lam.	
252	319, 319 ^a	Buccinum velatum Gould.	Mindanao.
253	320, 320 ^a	funereum Gould.	New Zealand.
255	313, 313 ^a	farinosum Gould.	Kauai.
256	324, 324 ^a	Nassa musiva Gould.	Cape de Verd Island.
257	325-325 ^b	lurida Gould.	Tutuilla.
258	326-326 ^c	curta Gould.	Samoa Island.
259	327-327 ^b	cinotella Gould.	Pacific Islands.
260	328-328 ^b	casta Gould.	Pacific Islands.
261	329-329 ^b	acinosa Gould.	
262	330-330 ^b	paupera Gould.	Pacific Islands.
265	336, 336 ^a	lilacina Gould.	Clermont Tonnerre.
266	333, 333 ^a	muricata Quoy.	
266	334	granifera Kien.	
268	338, 338 ^a	Columbella valga Gould.	Brazil?
269	339-339 ^b	castanea Gould.	Rio Janeiro.
270	341, 341 ^a	mendicaria Linn.	
270	342	ligula Ducl.	
270	352	Mitra vitellina Gould.	East Indies?
271	355, 355 ^a	cophina Gould.	Singapore.
272	354, 354 ^a	rorata Gould.	
273	351-351 ^b	capillata Gould.	Madeira.
274	356-356 ^b	encausta Gould.	Feejee Islands.
275	353-353 ^b	fidicula Gould.	
276	344 bis.	ambigua Swains.	
276	344, 344 ^a	adusta Lam.	Vincennes Island.
276	345	acuminata Swains.	Raraka.
		M. lutea Quoy.	
277	346, 346 ^a	virgata Ree.	Clermont Tonnerre.
		M. retusa (var. Gray.)	
277	347	maculosa Ree.	
277	348	nodosa Swains.	Clermont Tonnerre.
		M. fraga Quoy & Gaim.	
		tuberculata Kien.	
278	349	e	Feejee Islands.

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Page.	Fig.		
278	350	Mitra exasperata Chemn.	Feejee Islands.
		<i>M. torulosa</i> Lam.	
278	342	<i>filosa</i> Born	Feejee Islands.
278	357	Voluta Magellanica Gmel.	Orange Harbor.
		<i>V. ancilla</i> Lam.	
279		<i>ancilla</i> Sol.	Cape Horn.
		<i>V. Magellanica</i> Lam.	
		<i>gracilis</i> Wood's Sup.	
280	359	Melo Broderipii Gray.	China Seas.
		<i>M. regius</i> Brod.	
281	380	Oliva carneola Gmel.	Feejees.
281	370	Cypræa testudinaria Linn.	Upolu, &c.
281		<i>tigris</i> Linn.	Feejees, &c.
282	371, 371 ^a	<i>reticulata</i> Martyn.	Paumotu Group.
		<i>C. maculata</i> Barnes.	
		<i>histrio</i> Kien.	
282	372, 372 ^a	<i>fimbriata</i> Gmel.	Paumotu Group.
283	374, 374 ^a	<i>anellus</i> Linn.	Tutuilla.
283	373, 373 ^a	<i>caurica</i> Linn.	Tutuilla.
283		<i>felina</i> Gmel.	Tutuilla.
284		<i>errones</i> Linn.	Lebuka.
		<i>C. olivacea</i> Lam.	
284	376	Humphreysii Gray.	Sandalwood Bay.
		<i>C. lutea</i> Desh.	
284	375, 375 ^a	<i>poraria</i> Linn.	Benga Island.
284		<i>carneola</i> Linn.	Lebuka.
285	369	<i>lynx</i> Linn.	Feejee Islands.
285	378	<i>eburna</i> Barnes.	Feejee Islands, &c.
285	377	<i>arenosa</i> Gray.	Tahiti.
286	379	<i>obvelata</i> Lam.	Tutuilla.
286	367, 367 ^a	Conus dilectus Gould.	Feejee Islands.
287	361	<i>vexillum</i> Mart.	Tutuilla.
287	364, 364 ^a	<i>miles</i> Mart.	Honden Island.
288		<i>Hebraeus</i> Linn.	Clermont Tonnerre.
288	365	<i>nanus</i> Brod.	Tutuilla.
289	363	<i>sponsalis</i> Brug.	Clermont Tonnerre.
289	362, 362 ^a	<i>miliaris</i> Brug.	Clermont Tonnerre.
290	366	<i>minimus</i> Linn.	Pacific Island.
290	382, 382 ^a	Peronia indolens Couth.	Rio de Janeiro.
291	383-283 ^b	<i>irrorata</i> Gould.	Bay of Islands, N. Z.
291	384, 384 ^a	<i>acinosa</i> Gould.	Feejee Islands.
292	386-386 ^c	<i>marginata</i> Couth.	Orange Harbor.
293	385, 385 ^a	<i>corpulenta</i> Gould.	Direction Isl., Feejees.
293	387-387 ^c	Doris vermicelli Gould.	Valparaiso.

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Page.	Fig.		
248	312, 312 ^a	Pleurotoma seminifera <i>Gld.</i>	
249	311, 311 ^a	tigrina <i>Lam.</i>	Upolu.
250	313-313 ^a	Mangelia cithara <i>Gould.</i>	Feejee Islands.
250	314-314 ^b	Terebra crenulata <i>Linn.</i>	
251		dimidiata <i>Linn.</i>	
251	315	Babylonia <i>Lam.</i>	
251	316	lævigata <i>Gray.</i>	
251	317	subulata <i>Linn.</i>	
251	318	cærulescens <i>Lam.</i>	
252	319, 319 ^a	Buccinum velatum <i>Gould.</i>	Mindanao.
253	320, 320 ^a	funereum <i>Gould.</i>	New Zealand.
255	313, 313 ^a	farinosum <i>Gould.</i>	Kauai.
256	324, 324 ^a	Nassa musiva <i>Gould.</i>	Cape de Verd Island.
257	325-325 ^b	lurida <i>Gould.</i>	Tutuilla.
258	326-326 ^c	curta <i>Gould.</i>	Samoa Island.
259	327-327 ^b	cinctella <i>Gould.</i>	Pacific Islands.
260	328-328 ^b	casta <i>Gould.</i>	Pacific Islands.
261	329-329 ^b	acinosa <i>Gould.</i>	
262	330-330 ^b	paupera <i>Gould.</i>	Pacific Islands.
265	336, 336 ^a	lilacina <i>Gould.</i>	Clermont Tonnerre.
266	333, 333 ^a	muricata <i>Quoy.</i>	
266	334	granifera <i>Kien.</i>	
268	338, 338 ^a	Columbella valga <i>Gould.</i>	Brazil?
269	339-339 ^b	castanea <i>Gould.</i>	Rio Janeiro.
270	341, 341 ^a	mendicaria <i>Linn.</i>	
270	342	ligula <i>Duct.</i>	
270	352	Mitra vitellina <i>Gould.</i>	East Indies?
271	355, 355 ^a	cophina <i>Gould.</i>	Singapore.
272	354, 354 ^a	rorata <i>Gould.</i>	
273	351-351 ^b	capillata <i>Gould.</i>	Madeira.
274	356-356 ^b	encausta <i>Gould.</i>	Feejee Islands.
275	353-353 ^b	fidicula <i>Gould.</i>	
276	344 bis.	ambigua <i>Swains.</i>	
276	344, 344 ^a	adusta <i>Lam.</i>	Vincennes Island.
276	345	acuminata <i>Swains.</i>	Raraka.
		<i>M. lutea</i> <i>Quoy.</i>	
277	346, 346 ^a	virgata <i>Rce.</i>	Clermont Tonnerre.
		<i>M. retusa</i> (var. <i>Gray.</i>)	
277	347	maculosa <i>Rce.</i>	
277	348	nodosa <i>Swains.</i>	Clermont Tonnerre.
		<i>M. fraga</i> <i>Quoy & Gaim.</i>	
		<i>tuberculata</i> <i>Kien.</i>	
278	349	elegans <i>Rce.</i>	Feejee Islands.

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Page.	Fig.		
333	410	Chiton Zelandicus Quoy & Gaim.	
333	429, 429 ^a	Chitonellus fasciatus Quoy &	
333	421	Chiton Janeirensis Sub. [Ga. Rio Janeiro.	
333	427	Coquimbensis Fremb.	
334	452-452 ^b	Patella talcosa Gould.	Hawaii.
335	448, 448 ^a	citrullus Gould.	Funchal, Madeira.
336	446-446 ^b	luctuosa Gould.	New Zealand.
337	449-449 ^c	sagittata Gould.	Feejee Islands.
338	439-439 ^b	piperata Gould.	Cape de Verd Isl., Mad.
339	440-440 ^c	Paumotensis Gould.	Paumotu Island.
340	441-441 ^b	illuminata Gould.	Auckland Island.
341	442, 442 ^a	cymbularia Lam.	Lat. 47° 80' S., long. 60°
		<i>P. mytilina</i> Sch. & Wagn.	[W. (floating.)
		<i>cymbuloides</i> D'Orb.	
341	444, 444 ^a	deaurata Gmel.	Orange Harbor.
		<i>P. Magellanica</i> Gmel.	
		<i>fusca</i> Dill.	
343	443, 443 ^a	ferruginea Wood.	Orange Harbor.
343		tramoserica Chemn.	New Zealand.
345	447-447 ^b	cinnamomea Gould.	New South Wales.
345	451	argentata Gray.	Valparaiso.
347	450-450 ^b	(Lottia) araneosa Gould.	Sooloo Sea.
350	453-453 ^c	Lottia cymbiola Gould.	Valparaiso.
352	460, 460 ^a	zebrina Less.	Vigna del Mar, Valpa-
		<i>L. variabilis</i> Gray.	[raiso.
353	459, 459 ^a	viridula Lam. (<i>Patella</i> .)	Valparaiso.
355	461-461 ^b	onychina Gould.	Rio Janeiro?
356		scutum Esch.	Valparaiso.
		<i>Acmæa persona</i> Esch.	
		<i>radiata</i> Esch.	
		<i>ancylus</i> Esch.	
356		? scurra Less.	Valparaiso.
357	467-467 ^b	Siphonaria cornuta Gould.	Sooloo Sea.
358	465-465 ^b	inculta Gould.	New Zealand.
359	468-468 ^b	normalis Gould.	Sandwich Islands.
360	466-466 ^c	lepida Gould.	Rio Janeiro.
361	463-463 ^b	Lessoni Blainv.	Cape Horn.
362	464-464 ^b	antarctica Couth.	
363	462-462 ^b	lateralis Couth.	Orange Harbor.
364	473-473 ^d	Fissurella occidentens Gould.	Callao.
365	474-474 ^c	cruciata Gould.	Sooloo Sea.
366	472-472 ^c	verna Gould.	Cape de Verd Islands.
367	469, 469 ^a	picta Lam.	Orange Harbor.
370	477-477 ^c	Rimula conica D'Orb.	Cape Horn.

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Page.	Fig.		
294	388-388 ^a	<i>Doris plumulata</i> Gould.	Orange Harbor.
295	389-389 ^a	<i>luteola</i> Gould.	Orange Harbor.
296	390-390 ^a	<i>smaragdina</i> Gould.	Paumotu Group.
296	391, 391 ^a	<i>petechialis</i> Gould.	Oahu.
297	392-392 ^b	<i>lilacina</i> Gould.	Oahu.
298	393-393 ^a	<i>cerebralis</i> Gould.	Feejee Islands.
299	394, 394 ^a	<i>aurita</i> Gould.	Feejee Islands.
300	395-395 ^b	<i>spiraculata</i> Gould.	Feejee Islands.
301	396-396 ^c	<i>superba</i> Gould.	Tutuilla.
302	397-397 ^b	<i>cardinalis</i> Gould.	Honolulu.
303	398, 398 ^a	<i>sumptuosa</i> Gould.	Tonga Island.
304	399-399 ^a	<i>aspersa</i> Gould.	Paumotu.
304	400-400 ^a	<i>dorsalis</i> Gould.	Eimeo.
305	401-401 ^d	<i>Eolis attenuatus</i> Gould.	Chili.
306	402-402 ^c	<i>cyanella</i> Gould. [Gould.	Chili.
307	407-407 ^c	<i>Placobranchus ianthobaptus</i>	Honolulu.
307	406, 406 ^a	<i>Diphyllidia rubida</i> Gould.	Honolulu.
308	405, 405 ^a	<i>Elysia lobata</i> Gould.	Honolulu.
308	403-403 ^a	<i>Tritonia cucullata</i> Gould.	Rio Janeiro.
311	408, 408 ^a	<i>Umbrella Indica</i> .	Sandwich Islands.
312	437, 437 ^a	<i>Chiton quercinus</i> Gould.	New South Wales.
315	432, 432 ^a	<i>incanus</i> Gould.	New South Wales.
316	419-419 ^b	<i>pruinus</i> Gould.	Rio Janeiro.
317	430	<i>jugosus</i> Gould.	New South Wales.
318	413-413 ^c	<i>viridulus</i> Gould.	Orange Harbor.
319	428, 428 ^a	<i>fruticosus</i> Gould.	New South Wales.
320	431, 431 ^a	<i>platessa</i> Gould.	New South Wales.
321	433-433 ^b	<i>dentiens</i> Gould.	
322	423-423 ^b	<i>interstinctus</i> Gould.	
323	426, 426 ^a	<i>vespertinus</i> Gould.	
324	412-412 ^d	<i>puniceus</i> Couth.	Tierra del Fuego.
325	414, 414 ^a	<i>jaspideus</i> Gould.	Callao.
326	418-418 ^b	<i>asperimus</i> Couth.	Rio Janeiro.
326	411-411 ^a	<i>castaneus</i> Couth.	Orange Harbor.
327	434-434 ^b	<i>confossus</i> Gould.	Feejee Islands.
328	435-435 ^b	<i>petaloides</i> Gould.	Sandwich Islands.
329	417	<i>disjunctus</i> Fremb.	Villamar, Chili.
329	415	<i>atratus</i> Sowb.	Orange Harbor.
330		<i>lignosus</i> Gould.	
		<i>C. Merckii</i> Midd.	
331	420-420 ^b	<i>violaceus</i> Quoy & Gaim.	New Zealand.
332	422	<i>Peruvianus</i> Lam.	
332	416	<i>lineolatus</i> Fremb.	Valparaiso.
332		<i>australis</i> Sowb.	

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Page.	Fig.		
416	523-523 ^b	<i>Lucina ramulosa</i> Gould.	Paumotu Island.
		<i>L. fibula</i> Rve.	
416	533	<i>Cardita procera</i> Gould.	Rio Negro, Patagonia.
419	537, 537 ^a	<i>Venus torenuma</i> Gould.	Mangsi Island, Sooloo Sea.
422	536, 536 ^a	<i>Arthemis lambata</i> Gould.	Bay of Islands, N. Z.
423		<i>Venus calcarea</i> Gould.	New Zealand.
423	560-560 ^b	<i>Arca sobria</i> Gould.	
424	539-539 ^o	<i>Nucula sulculata</i> Gould.	Cape Horn.
425	526-526 ^b	<i>Cyclas egregia</i> Gould.	New South Wales.
427	529-529 ^b	<i>Cyrena debilis</i> Gould.	New Holland.
428	542-542 ^o	<i>Unio lutulentus</i> Gould.	New Zealand.
429	543-543 ^b	<i>profugus</i> Gould.	New South Wales.
430	540-540 ^b	<i>dorsuosus</i> Gould.	Eastern Asia.
431	541-541 ^o	<i>verecundus</i> Gould.	Manilla.
434	548-548 ^b	<i>Anodonta puberula</i> Gould.	Peru.
		<i>Anodon glauca</i> Gould.	
437	555	<i>Avicula margaritifera</i> (Linn.) Roissy.	
		<i>Meleagrina margaritifera</i> Lam.	
438	554	<i>nigra</i> Gould.	Singapore.
439	553, 553 ^a	<i>vidua</i> Gould.	Feejee Islands.
440	550, 550 ^a	<i>lurida</i> Gould.	Feejee Islands.
441	551, 551 ^a	<i>fucata</i> Gould.	New Zealand.
442	552-552 ^b	<i>glabra</i> Gould.	New Zealand.
443	549-549 ^b	<i>pica</i> Gould.	Samoa Island.
444	559, 559 ^a	<i>Perna argillacea</i> Gould.	
445	558, 558 ^a	<i>torva</i> Gould.	Sandwich Islands.
445	556, 556 ^a	<i>nana</i> Gould.	Feejee Islands.
446	557-557 ^o	<i>eremita</i> Gould.	Paumotu Island.
447	584-584 ^b	<i>Crenatula pergaminea</i> Gould.	Feejee Islands.
448	574	<i>Pinna senticosa</i> Gould.	New Zealand.
449	565, 565 ^a	<i>Mytilus divaricatus</i> Gould.	China Seas.
450	566, 566 ^a	<i>algius</i> Gould.	Feejee Islands.
451	564, 564 ^a	<i>pyriformis</i> Gould.	South Seas.
452	562, 562 ^a	(<i>Modiola</i>) <i>areolatus</i> Gld.	New Zealand.
454	563, 563 ^a	(<i>Modiola</i>) <i>hepaticus</i> Gld.	Feejee Islands.
455	585-585 ^o	(<i>Modiolarca</i>) <i>pusillus</i> Gd.	Tierra del Fuego.
456	571-571 ^b	<i>Pecten lætus</i> Gould.	New Zealand.
459	568-568 ^r	<i>Gaimardia trapesina</i> Gould.	Lat. 47° 30' S., long. 59°
		<i>Modiola trapesina</i> Lam.	53' W., and Orange Harbor.
461	577-577 ^b	<i>Ostrea glomerata</i> Gould.	New Zealand.
462	576-576 ^b	<i>circumsuta</i> Gould.	Feejee and Samoa Isl'ds.
463	578, 578 ^a	<i>discoidea</i> Gould.	
464	575, 575 ^a	<i>mordax</i> Gould.	Feejee Islands.

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Page.	Fig.		
465	580-580 ^a	<i>Crania radiosa</i> Gould.	Rio Janeiro.
469	583-583 ^a	<i>Terebratula Patagonica</i> Gld.	Patagonia.
470	585	<i>Argonauta geniculata</i> Gould.	Rio Janeiro.
471	586, 586 ^a	<i>Octopus megalocyathus</i> Gld.	Orange Harbor.
473	587, 587 ^a	<i>mimus</i> Gould.	Callao, Peru.
474	588	<i>tetricus</i> Gould.	New South Wales.
475	589	<i>furvus</i> Gould.	Rio Janeiro.
476	590, 590 ^a	<i>ornatus</i> Gould.	Sandwich Islands.
478	591	<i>pusillus</i> Gould.	Mangsi Island, China Sea.
479	592	<i>mollis</i> Gould.	Samoa Island.
479	593	<i>Sepioteuthis arctipinnis</i> Gld.	Maui, Sandwich Islands.
480	594, 594 ^a	<i>Ommastrephes insignis</i> Gld.	Feejee Islands.
482	595	<i>Onychoteuthis rutulis</i> Gould.	New South Wales.
483	596	<i>brevimanus</i> Gould.	Tutuilla.
485	602-602 ^b	<i>Limacina scaphoidea</i> Gould.	Equatorial Atlantic.
486	601-601 ^b	? <i>cucullata</i> Gould.	An ice island, lat. 66° S.,
487	604, 604 ^a	<i>Hyalæa inermis</i> Gould.	[long. 106° 20' E.
487	603	<i>femorata</i> Gould.	Equatorial Atlantic.
488	605-605 ^b	<i>Cleodora exacuta</i> Gould.	Lat. 44° N., long. 154° W.
489	607, 607 ^a	<i>munda</i> Gould.	Equatorial Atlantic.
490	606	<i>placida</i> Gould.	Equatorial Atlantic.
490	608	<i>falcata</i> Gould.	Pacific Ocean.
491	597	<i>Atlanta primitia</i> Gould.	Equatorial Atlantic.
492	198-198 ^c	<i>cunicula</i> Gould.	West of Sandwich Isl'ds.
493	599-599 ^b	<i>violacea</i> Gould.	Stomach of a Bonito, lat.
			30° S., long. 20° W.
494	600-600 ^b	<i>tessellata</i> Gould.	Stomach of a Bonito, lat.
			30° S., long. 20° W.
495	609	<i>Cynthia amphora</i> Gould.	Rio Janeiro.
495	610	<i>Phallusia violacea</i> Gould.	Rio Janeiro.
496	611	<i>Ascidia monstrans</i> .	Rio Janeiro.
496	612, 612 ^a	<i>Boltenia coacta</i> Gould.	Orange Harbor.

ADDENDA AND CORRIGENDA.

Page.		Page.	
*500	<i>Athoracophorus</i> .	*500	<i>Succinea rotundata</i> .
*500	<i>Vitrina Ruivensis</i> .		<i>S. Newcombi</i> Pfr.
*500	<i>marcida</i> .	*500	<i>venusta</i> .
*500	<i>nitida</i> .	*500	<i>Nanina fricata</i> .
*500	<i>robusta</i> .	*500	<i>Helix intaminata</i> .
*500	<i>caperata</i> .		<i>H. Broderipii</i> Pfr. ?
*500	<i>tenella</i> .		<i>Carocalla dealbata</i> Brd.
*500	<i>furva</i> .	*501	<i>spirillus</i> .

[Gould, Exploring Expedition.]

Page.		Page.	
*501	Helix zig-zag.	*502	Cyclostoma strigatum.
	<i>H. rapida</i> Pfr.		<i>C. albida.</i>
*501	cultrata.	*502	plicatum.
	<i>H. callifera</i> Pfr.		<i>C. Apia</i> Recl.
*501	exæquata.	*502	Planorbis Kermatoides.
	<i>H. disculus</i> Pfr.	*502	Melania scipio.
*501	bursatella.		<i>M. verruculum</i> Morel.?
	<i>H. turricula.</i>	*502	Cerithium invaginatum.
	<i>excavata.</i>		<i>C. planum</i> Phil.
*501	Troilus.	*502	aduncum.
	<i>H. Apia.</i>		<i>C. dorsuosum</i> A. Ad.
	<i>exclusa.</i>	*502	Pelex lateralis.
*501	nitidiuscula.	*502	Neritina caffra.
*501	Bulimus fulguratus.	*502	Nerita musiva.
*501	Partula zebrina.	*503	Turbo laciniatus.
	<i>P. Recluziana</i> Petit.	*503	Trochus tantillus.
*502	Vertigo tantilla.		<i>Margarita angulata</i> A.
		*503	Litopa decussata. [Ad.
		*503	Obeliscus terebelloides.

Page.	Fig.		
*503	274-274 ^b	Trichotropis pusilla.	Liberia.
*504	296-296 ^b	Triton Brazilianum Gould.	Rio Janeiro.
*506	297-297 ^b	mundum Gould.	Tutuilla.
*507	360, 360 ^a	Phos varicosus.	Philippine Islands.
*508	305, 305 ^a	Ricinula tuberculata.	
*508	323	Buccinum farinosum.	
*508	351	Mitra capillata.	
*508	382	Peronia indolens.	
*508		Macra debilis.	
*508		Donax crocatus.	
*508		Venus toreuma.	
		<i>V. crebrisulca</i> Sowb.?	
*508		Unio dorsuosus.	
		<i>U. Neapeanensis</i> Conr.	
*509		Gaimardia trapesina.	
*509		Ostrea discoidea.	

[Gould, Exploring Expedition.]

Page.	Fig.		
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478	591	<i>pusillus</i> Gould.	Mangsi Island, China Sea.
479	592	<i>mollis</i> Gould.	Samoa Island.
479	593	<i>Sepioteuthis arctipinnis</i> Gld.	Maui, Sandwich Islands.
480	594, 594 ^a	<i>Ommastrephes insignis</i> Gld.	Feejee Islands.
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485	602-602 ^b	<i>Limacina scaphoidea</i> Gould.	Equatorial Atlantic.
486	601-601 ^b	<i>? cucullata</i> Gould.	An ice island, lat. 66° S., [long. 106° 20' E.]
487	604, 604 ^a	<i>Hyalea inermis</i> Gould.	Equatorial Atlantic.
487	603	<i>femorata</i> Gould.	Lat. 44° N., long. 154° W.
488	605-605 ^b	<i>Cleodora exacuta</i> Gould.	Equatorial Atlantic.
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491	597	<i>Atlanta primitia</i> Gould.	West of Sandwich Isl's.
492	198-198 ^c	<i>cunicula</i> Gould.	Stomach of a Bonito, lat. 30° S., long. 20° W.
493	599-599 ^b	<i>violacea</i> Gould.	Stomach of a Bonito, lat. 30° S., long. 20° W.
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495	609	<i>Cynthia amphora</i> Gould.	Rio Janeiro.
495	610	<i>Phallusia violacea</i> Gould.	Rio Janeiro.
496	611	<i>Ascidia monstrans.</i>	Rio Janeiro.
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*500	<i>robusta.</i>	*500	<i>Helix intaminata.</i>
*500	<i>caperata.</i>		<i>H. Broderipii</i> Pfr.?
*500	<i>tenella.</i>		<i>Carocolla dealbata</i> B.
*500	<i>furva.</i>	*501	<i>spirillus.</i>

[Gould, Exploring Expedition.]

Page.		Page.	
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	<i>H. rapida</i> Pfr.		<i>C. albida.</i>
*501	cultrata.	*502	plicatum.
	<i>H. callifera</i> Pfr.		<i>C. Apia</i> Reol.
*501	exæquata.	*502	Planorbis Kermatoidea.
	<i>H. disculus</i> Pfr.	*502	Melania scipio.
*501	bursatella.		<i>M. verruculum</i> Morel.?
	<i>H. turricula.</i>	*502	Cerithium invaginatum.
	<i>excavata.</i>		<i>C. planum</i> Phil.
*501	Troilus.	*502	aduncum.
	<i>H. Apia.</i>		<i>C. dorsuosum</i> A. Ad.
	<i>exclusa.</i>	*502	Pelex lateralis.
*501	nitidiuscula.	*502	Neritina caffa.
*501	Bulinus fulguratus.	*502	Nerita musiva.
*501	Partula zebrina.	*503	Turbo laciniatus.
	<i>P. Reclusiana</i> Petit.	*503	Trochus tantillus.
*502	Vertigo tantilla.		<i>Margarita angulata</i> A.
		*503	Litiopa decussata. [Ad.]
		*503	Obeliscus terebelloides.

Page.	Fig.		
*503	274-274 ^b	Trichotropis pusilla.	Liberia.
*504	296-296 ^b	Triton Brazilianum Gould.	Rio Janeiro.
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*507	360, 360 ^a	Phos varicosus.	Philippine Islands.
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*508		Mastra debilis.	
*508		Donax crocatus.	
*508		Venus toreuma.	
		<i>V. crebrisulca</i> Sowb.?	
*508		Unio dorsuosus.	
		<i>U. Napeanensis</i> Conr.	
*509		Gaimardia trapesina.	
*509		Ostrea discoidea.	

Page.		Page.	
263	var. <i>Senegalensis</i> .	263	<i>Cardium fragum</i> .
263	<i>Turbo niger</i> Gray.	263	<i>Conus eburneus</i> .
263	<i>Trochus ater</i> Less.	263	<i>Ricinus horrida</i> .
263	<i>araucanus</i> D'Orb.	263	<i>albilabris</i> .
263	<i>Murex crassilabrum</i> .	263	<i>Monoceros crassilabrum</i>
263	<i>horridus</i> Sowb.	263	<i>Oliva guttata</i> . [Lam.
263	<i>Boivini</i> Kien.	263	<i>jaspidea</i> .
263	<i>Fissurella latimarginata</i>	263	<i>elegans</i> .
263	<i>Calyptræa pileus</i> . [Sowb.	263	<i>flamulata</i> ?
263	<i>Peruviana</i> .	263	<i>Strombus gibberulus</i> .
263	<i>Littorina Peruviana</i> Gray.	263	<i>Cerithium lineatum</i> .
263	<i>araucana</i> D'Orb.	263	<i>Cyprea moneta</i> .
263	<i>Bulimus erythrostoma</i>	263	<i>annulus</i> .
263	<i>Acmaea viridula</i> . [Sowb.	263	<i>cicercula</i> .
263	var. <i>Achates</i> .	263	<i>eburnea</i> .
263	<i>scutum</i> D'Orb. & Esch.	263	<i>fimbriata</i> .
263	<i>scurra</i> Less.	263	<i>Venus pannosa</i> Sowb.
263	<i>Triton scaber</i> King.	263	<i>Terebra cinerea</i> .
263	<i>rudis</i> Sowb.	263	<i>striata</i> .
263	<i>Nassa rubricata</i> Gould.	263	<i>Nerita albicilla</i> .
263	<i>Mesodesma donacia</i> Lam.	263	<i>Le Guillouana</i> .
263	<i>Cytherea pannosa</i> ? D'Orb.	263	<i>Neritina canales</i> Sowb.
263	<i>Mytilus</i> ———.	263	<i>Siphonaria Lessoni</i> Blainv.
263	<i>Planorbis</i> ———.	263	<i>Natica uber</i> .
263	<i>Dombeya (Chilina) fluc-</i>	263	<i>Melampus</i> ———.
263	<i>Cardium unedo</i> . [tuosa.		

Jay.—Report on the Shells collected by the Japan Expedition, under the command of Commodore M. C. Perry, U. S. N., together with a list of Japan Shells: by JOHN C. JAY, of New York. (From the Report of Perry's Expedition to Japan, vol. ii, p. 291. Washington, 1856. Thirty-third Congress, Second Session, Senate Ex. Doc., No. 79.)

Pa.	Pl.	Fig.		
292	i	7-10	<i>Mya Japonica</i> Jay.	Volcano Bay, Yedo.
292	i	8, 9	<i>Psammobia olivacea</i> Jay.	Bay of Yedo.
292	ii	1, 2	<i>Cytherea meretrix</i> Linn.	Canton river, Yedo.
293	i	1-6	<i>formosa</i> Sowb.	Lew Chew.
293	ii	3-5, 10	<i>morphina</i> Lam.	Canton river, Lew Chew
293	ii	6-9	<i>petechialis</i> L'k.	Lew Chew.
293	iii	1, 2	<i>Dipsas plicatus</i> .	Shanghai.

Pa.	Pl.	Fig.		
293	iv	1, 2	Pecten Yessoensis Jay.	Hakodadi.
	iii	3, 4		
294	v	1-6	Helix Simodæ Jay.	Simoda.
294	v	7-9	Perryi Jay.	Yedo.
294	v	10-12	Lymnea Japonica Jay.	Simoda.
295	v	16, 17	Purpura septentrionalis.	Sitka?
295	v	13-15	Bullia Perryi Jay.	Bay of Yedo.

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296 Solen constrictus Lam.	296 Arca obtusa Ree.
296 Panopæa Japonica A. Ad.	296 Nucula Japonica A. Ad.
296 Mya Japonica Jay.	296 mirabilis A. Ad.
296 Corbula erythrodon Lam.	296 Modiola siliqua Phil.
296 Lutraria Sieboldii Desh.	296 Mytilus unguatus Lam.
296 Chemnitzii Phil.	296 Lithophagus caperatus Ph.
296 Macra veneriformis Desh.	296 Avicula Japonica Dunk.
296 rostralis Desh.	296 Chama Japonica Lam.
296 corbicula Phil.	296 Pecten Yessoensis Jay.
296 pellicula Desh.	296 nobilis Ree.
296 eburnea Phil.	296 Japonicus Gmel.
296 Venerupis Nuttallii Conr.	296 molitus Ree.
296 Psammobia olivacea Jay.	296 pleuronectes Linn.
296 Tellina secta Conr.	296 Ostrea borealis Linn.
296 Astarte Japonica Jay.	296 Terebratula Japonica A. A.
296 Cytherea morphina Lam.	296 angusta A. Ad.
296 petechialis Lam.	296 rubella Sowb.
296 meretrix Linn.	296 Dentalium octogonum Desh.
296 lusoria Lam.	296 Patella lanx Ree.
296 Artemis Japonica Ree.	296 saccharina Linn. [Phil.
296 scabra Phil.	296 Parmophorus emarginatus
296 bilunata Gray.	296 Fissurella Sieboldii Ree.
296 Sieboldii Ree.	296 Tongana Quoy.
296 sericea Ree.	296 Stomatella Japonica A. Ad.
296 biscocta Ree.	296 Sigaretus papillus Recl.
296 orientalis Sowb.	296 Haliotis gigantea Chemn.
296 Venus striata Chemn.	296 Japonica Ree.
296 donacina Chemn.	296 discus Ree.
296 Japonica Gmel.	296 Sieboldii Ree.
296 æquilatera Sowb.	296 Bulla viridis Ree.
296 Tapes decussata Linn.	296 ampulla Linn.
296 Japonica Desh.	296 Helix Perryi Jay.
296 Meroe excavata Hanl.	296 Simodæ Jay.
296 Isocardia tetragona A. Ad.	296 Largillierti Phil.
296 Arca Japonica Ree.	

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296	<i>Helix Sieboldiana Phil.</i>	297	<i>Cerithium nebulosum Phil.</i>
296	<i>elegantissima Pfr.</i>	297	<i>Fusus fornicatus Gmel.</i>
296	<i>Japonica Pfr.</i>	297	<i>Pyrula ficoides Lam.</i>
296	<i>horiomphala Pfr.</i>	297	<i>Cancellaria nodulifera Sowb.</i>
296	<i>conospira Pfr.</i>	297	<i>Pleurotoma flavidula Lam.</i>
296	<i>Bulimus rimatus Pfr.</i>	297	<i>Murex falcatus Sowb.</i>
296	<i>Clausilia Buschii Küst.</i>	297	<i>inermis Sowb.</i>
296	<i>valida Pfr.</i>	297	<i>eurypteron Ree.</i>
296	<i>Sieboldii Pfr.</i>	297	<i>Strombus Japonicus Ree.</i>
296	<i>Auricula hepatica Phil.</i>	297	<i>Cassis saburon Lam.</i>
296	<i>Lymnea Japonica Jay.</i>	297	<i>Japonica Ree.</i>
296	<i>flava Phil.</i>	297	<i>Columbella versicolor St.</i>
296	<i>Melania Bensoni Phil.</i>	297	<i>Purpura septentrionalis Ree.</i>
296	<i>Natica Antoni Phil.</i>	297	<i>Dolium variegatum Lam.</i>
296	<i>duplicata Say.</i>	297	<i>Buccinum Chinense Phil.</i>
296	<i>mamilla Lam.</i>	297	<i>achatinum Lam.</i>
296	<i>olla Desh.</i>	297	<i>Nassa Japonica A. Ad.</i>
296	<i>Actæon Dianæ A. Ad.</i>	297	<i>ponderosa A. Ad.</i>
296	<i>Ianthina communis Lam.</i>	297	<i>Desmoulea crassa A. Ad.</i>
296	<i>prolongata Blainv.</i>	297	<i>Bullia Perryi Jay.</i>
296	<i>Obeliscus pulchellus A. Ad.</i>	297	<i>Eburna Japonica Ree.</i>
296	<i>brunneus A. Ad.</i>	297	<i>Terebra serotina A. Ad.</i>
296	<i>Globulus giganteus Less.</i>	297	<i>Mitra impressa Anton.</i>
296	<i>Xenophora pallidulus Ree.</i>	297	<i>incisa A. Ad.</i>
296	<i>Monodonta catenulata.</i>	297	<i>Voluta megaspira Sowb.</i>
296	<i>exigua A. Ad.</i>	297	<i>cassidula Ree.</i>
296	<i>Trochus Japonicus Dunk.</i>	297	<i>Cypræa caputserpentis Lin.</i>
296	<i>triumphans Phil.</i>	297	<i>milliaris Gmel.</i>
296	<i>Clanculus Smithii Wood.</i>	297	<i>fimbriata Gmel.</i>
296	<i>Turbo Japonicus Ree.</i>	297	<i>pallida Gray.</i>
296	<i>Littorina Sieboldii Phil.</i>	297	<i>Ovulum concinnum Sowb.</i>
296	<i>Cecillii Phil.</i>	297	<i>birostre Lam.</i>
296	<i>Turritella aquila Ree.</i>	297	<i>striatulum Lam.</i>
297	<i>Eglisia Cumingii A. Ad.</i>	297	<i>volva Linn.</i>
297	<i>Cerithium Cecillii Phil.</i>	297	<i>Conus Sieboldii Ree.</i>

Lea.—Proceedings of the American Philosophical Society.
Philadelphia.

[For localities of the following species, vide quotations from the Transactions of this Society.—W. G. B.]

Isaac Lea.—Descriptions of—

Page.		Page.	
Vol. I, No. 10. Jan.—Feb. 1840.			
173	<i>Bulimus Woodianus</i> Lea.	288	<i>Margaritana Vondenburgiana</i> Lea.
173	<i>bicoloratus</i> Lea.	Vol. II, No. 17. Mar.—Apr. 1841.	
173	<i>subglobosus</i> Lea.	30	<i>Unio Rajahensis</i> Lea.
173	<i>gracilis</i> Lea.	31	<i>Anodonta Montezuma</i> Lea.
174	<i>carinatus</i> Lea.	31	<i>Bulimus Jayanus</i> Lea.
174	<i>virido-striatus</i> Lea.	31	<i>Achatina turbinata</i> Lea.
174	<i>virginus</i> Lea.	31	<i>striata</i> Lea.
174	<i>Liberianus</i> Lea.	31	<i>Succinea gracilis</i> Lea.
174	<i>Cyclostoma Woodiana</i> Lea.	32	<i>Candeana</i> Lea.
174	<i>Carocolla bifasciata</i> Lea.	32	<i>fulgens</i> Lea.
174	<i>Helix cepoides</i> Lea.	33	<i>Lymnea rubella</i> Lea.
174	<i>Blainvilliana</i> Lea.	Vol. II, No. 23. Aug.—Oct. 1842	
174	<i>Lamarckiana</i> Lea.	Notes on—	
175	<i>luteo-fasciata</i> Lea.	213	<i>Petricola solida</i> Lea.
175	<i>ferruginea</i> Lea.		Payta, Peru.
175	<i>Cuvieriana</i> Lea.	213	<i>denticulata</i> Lea.
175	<i>Blandingiana</i> Lea.		Payta, Peru.
175	<i>Humphreysiana</i> Lea.	213	<i>Lithophagus dactylus</i> Lea.
175	<i>Balasteriana</i> Lea.		Payta, Peru.
Vol. I, No. 13. Aug.—Oct. 1840.		213	<i>Ostrea</i> ——— Lea.
285	<i>Unio cucumoides</i> Lea.		Payta, Peru.
285	<i>delphinus</i> Lea.	Vol. V, No. 48. Feb.—Dec. 1852	
285	<i>orientalis</i> Lea.	252	<i>Basistoma</i> Lea (n. g.)
285	<i>Javanus</i> Lea.		

Binney, Couthouy, Gould, &c.—In the Boston Journal of Natural History occur the following :—

Vol. i, pt. 1. 1834.

Page. Pl. Fig.

- 63 **Binney.**—Observations on a Shell in the Cabinet of the Boston Society of Natural History, supposed to be identical with the *Murex Aruanus* of Linnaeus, and the *Fusus Probosciferus* of Lamarck: by A. BINNEY.

- 67 v **Fusus Aruanus.** East Indies?
vi *Murex Aruanus* Linn.
Fusus probosciferus Lam.

Vol. i, pt. 4. May, 1837.

- 440 **Couthouy.**—Description of a new species of the genus *Marginella* (Lam.), with some observations on the same: by JOSEPH P. COUTHOUY.

- 440 ix 1, 2 **Marginella Storeria** Couth. S. shores of Gulf of Mexico.

Vol. II, pt. 2. Feb. 1839.

- 129 **Couthouy.**—Monograph of the family Osteodermacea of Deshayes, with remarks on two species of Patelloidea, and descriptions of new species of Marine Shells, a species of *Anculotus*, and one of *Eolis*: by JOSEPH P. COUTHOUY.

[For the American species, vide p. 345.—W. G. B.]

- 135 **Thracia pubescens.** English Channel.
Mya declivis Penn.
pubescens Pult.
Anatina myalis Lam.
declivis Brown.
- 140 **convexa.** Great Britain.
Mya declivis Don.
convexa Wood.
Anatina convexa Turt.
Ligula distorta Mont.
- 143 **corbuloides.** Mediterranean.
146 **plicata.**
147 **phaseolina.**
Amphidesma phaseolina Lam.
- 150 iv 3 **similis** Couth. Brazil.

[Boston Journ. Nat. Hist.]

Page.	Pl.	Fig.	Notes on—
158			<i>Anatina declivis</i> Turt.
158			<i>villosiuscula</i> Brown.
159			<i>Mya distorta</i> Mont.
160			<i>Periploma trapezoides</i> . Brazil.
			<i>Anatina trapezoides</i> Lam.
			<i>Osteodesma trapezoides</i> Blainv.

Vol. iv, pt. 4. 1844.

452			Gould. —Descriptions of Land Shells from the Province of Tavoy, in British Burmah: by AUGUSTUS A. GOULD, M. D.
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453	xxiv	1	<i>Helix procumbens</i> Gould.
453	xxiv	6	<i>infrendens</i> Gould.
454	xxiv	9	(<i>Carocolla</i>) <i>gabata</i> Gould.
454	xxiv	4	<i>anceps</i> Gould.
455	xxiv	5	<i>retrorsa</i> Gould.
456	xxiv	2	<i>Vitrina præstans</i> Gould.
456	xxiv	7	<i>Helix</i> (<i>Steptaxis</i>) <i>Petitii</i> Gould.
457	xxiv	3	<i>Bulimus atricallosus</i> Gould.
458	xxiv	8	<i>Clausilia insignis</i> Gould.
458	xxiv	11	<i>Cyclostoma pernobilis</i> Gould.
459	xxiv	10	<i>sectilabrum</i> Gould.

485			Gould. —Descriptions and notices of some of the Land Shells of Cuba: by A. A. GOULD, M. D.
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[Notes and localities of each species are given and descriptions of the new species.—W. G. B.]

486			<i>Helix auricoma</i> Fer.
486			<i>Bonplandii</i> Lam.
487			<i>multistriata</i> Desh.
			<i>H. circumtexta</i> Fer.
487			<i>Poeyi</i> Pet.
487			<i>gilvus</i> Fer.
			<i>H. penticillata</i> Gould.
487			<i>Cubensis</i> Pfr.
			<i>H. Lanieriana</i> D'Orb.
488			<i>fragilis</i> Pfr.
488			<i>Boothiana</i> Pfr.
488			<i>Ottonis</i> Pfr.
488			<i>saxicola</i> Pfr.
488			<i>septemvolva</i> Say.
488			<i>Ramonis</i> D'Orb.

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Page.	Pl.	Fig.	
489			<i>Achatina fasciata</i> Mall.
			<i>A. verillum</i> Brug.
489			<i>graecillima</i> Pfr.
489			<i>oetona</i> Chemn.
489			<i>Glandina oleacea</i> Fer.
489			<i>folliculus</i> Lam.
			<i>Achatina solidula</i> Pfr.
490			<i>Pupa unidentata</i> Lam.
			<i>Bulimus Canimensis</i> Pfr.
490			<i>servilis</i> Gould.
			Described on p. 356, pl. xvi, fig. 14.
490			<i>contracta</i> Say.
490			<i>chrysalis</i> Fer.
490			<i>elegans</i> (<i>Cylindrella</i>) Pfr.
			<i>P. (Siphonostoma) lituus</i> Gould.
490	xxiv	12	(<i>Siphonostoma</i>) <i>porrecta</i> Gould.
491	xxiv	13	<i>lactaria</i> Gould.
492			<i>subula</i> Fer. ?
492			(<i>Cyl.</i>) <i>orispula</i> Pfr.
492			<i>Helicina submarginata</i> Gr.
			<i>H. rubra</i> Pfr.
			<i>crassa</i> D'Orb.
492			<i>sagra</i> D'Orb.
492			<i>pulcherrima</i> Lea.
493			<i>adpersa</i> Pfr.
			<i>H. variegata</i> D'Orb.
493			<i>globulosa</i> D'Orb.
493			<i>nitida</i> Pfr.
			<i>H. glabra</i> Gould.
493			<i>rugosa</i> Pfr.
493			<i>hispida</i> Pfr.
493			<i>rupestris</i> Pfr.
494			<i>Cyclostoma auriculatum</i> D'Orb.
			<i>C. bicolor</i> Gould.
494			<i>sagra</i> D'Orb.
			<i>C. pictum</i> Pfr.
			<i>mahogani</i> Gould.
494			<i>interruptum</i> Sowb.
			<i>C. catenatum</i> Gould.
495			<i>rugulosum</i> Pfr.
			<i>C. clathratum</i> Gould.
495			<i>Candeanum</i> Sowb.
495			<i>Auberianum</i> D'Orb.
			<i>C. crenulatum</i> Pfr.

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Page.	Pl.	Fig.	
495			<i>Succinea</i> ——— ?
495			<i>Limnea</i> ——— ?
495			<i>Physa</i> ——— ?
496			<i>Planorbis Havanensis</i> Pfr.
496			<i>Cubensis</i> Pfr.
496			<i>cultratus</i> D'Orb.
496			<i>Lanieriana</i> D'Orb.
496	xxiv	14	<i>dentatus</i> Gould.
			<i>P. albicans</i> Pfr. ?

Notes on—

497			<i>Littorina tuberculata</i> Mke.
498			<i>Turbo trochiformis</i> Dillw.
498			<i>Trochus nodulosus</i> Gmel.
498			<i>tuberculatus</i> Wood.
498			<i>Littorina dilatata</i> D'Orb.

Vol. iv, pt. 4. 1842.

A. A. Gould.—(On the third page of the cover of pt. 1, of vol. iv, occur descriptions of the following.)

<i>Helix penicillata</i> Gould.	Cuba.
<i>Helicina glabra</i> Gould.	Cuba.
<i>Pupa</i> (<i>Siphonostoma</i>) <i>porrecta</i> Cuba.	
<i>lituus</i> Gould.	[Gould. Cuba.
<i>Cyclostoma bicolor</i> Gould.	Cuba.
<i>clathratum</i> Gould.	Cuba.
<i>mahogani</i> Gould.	Cuba.
<i>catenatum</i> Gould.	Cuba.
<i>Conus castrensis</i> Gould.	

Vol. v, pt. 2. Oct. 1843.

290 **Gould.**—Descriptions of Shells from the Coast of Africa: by AUGUSTUS A. GOULD, M. D.

290	xxiv	7	<i>Pholas branchiata</i> Gould.
291	xxiv	9	<i>Psammobia figlina</i> Gould.
292	xxiv	8	<i>Nucula bicuspidata</i> Gould.
292	xxiv	10	<i>Nassa turbineae</i> Gould.
293	xxiv	11	<i>elata</i> Gould.

Vol. v, pt. 3. June, 1846.

344 xx 1-3 **Leidy.**—Anatomical description of the animal of *Littorina angulifera* Lam.: by JOSEPH LEIDY, M. D.

Gould, Adams, &c.—Proceedings of the Boston Society
of Natural History.

- Oct. 1843.
Vol. Page.
- i 138 **Dr. A. A. Gould.**
- i 138 *Helix penicillata* = *H. gilvus* Fer.
- i 138 *Helicina glabra* *Helicina nitida* Pfr.
- i 138 *Pupa carinata* = *P. procera* Gould
- i 138 *Siphonostoma lituus* *Cylindrella elegans* Pfr.
- i 138 *Cyclostoma clathratum* = *C. rugulosum* Pfr.
- i 138 *Mahogani* = *C. Sagra* D'Orb. (*pictum* Pfr.)
- i 138 *bicolor* = *C. auriculatum* D'Orb.
- i 138 *Siphonostoma porrectum* Gould. Cuba.
- i 138 *Cyclostoma catenatum* Gould. Cuba.
- i 138 *Conus castrensis* Gould.
- i 138 *Pupa servilis* Gould. Cuba, Santa Cruz.
- i 139 *lyrata* Gould. Sandwich Islands.
- i 139 *Helix procumbens* Gould. Tavoy.
- i 139 *infrendens* Gould. Tavoy.
- i 139 (*Carocolla*) *gabata* Gould. Tavoy.
- i 139 *retrorsa* Gould. Tavoy.
- i 139 *anceps* Gould. Tavoy.
- i 140 *Vitrina præstans* Gould. Tavoy.
- i 140 *Bulimus atricallosus* Gould. Tavoy.
- i 140 *Clausilia insignis* Gould. Tavoy.
- i 140 *Cyclostoma pernobilis* Gould. Tavoy.
- i 140 *sectilabrum* Gould. Tavoy.
- i 140 *Unio Tavoyensis* Gould. Tavoy.
- i 141 *crispata* Gould. Tavoy.
- i 141 *foliacea* Gould. Tavoy.
- i 141 *exolescens* Gould. Tavoy.
- i 144 *Paludina doliaris* Gould. Burmah.
- i 144 *petrosa* Gould. Burmah.
- i 144 *Melania batana* Gould. Burmah.
- i 144 *Modiola varicosa* Gould. Burmah.
- Nov. 1843.
- Notes on—
- i 148 **Melampus and Pedipes.**
- Dec. 1843.
- i 157 *Helix* (*Carocolla*) *pellucida* Gould. Africa.
- i 158 *Bulimus rubicundulus* Gould. Africa.
- i 158 *interstinctus* Gould. Africa.
- i 158 *Achatina torrida* Gould. Africa.

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i	158	<i>Pupa pumilio</i> Gould.	Africa.
i	158	<i>capitata</i> Gould.	Africa.
i	159	<i>Melania mutans</i> Gould.	[don). Africa.
i	160	<i>Anodon Salweniana</i> Gld. (Pseudo-	R. Salwen, Burmah.
i	160	<i>inoscularis</i> Gould (Pseudodon).	R. Salwen, Burmah.
i	160	<i>Pseudodon</i> Gould (n. s. g.)	
i	160	<i>edentula</i> Gould.	
i	160	<i>Stewartii</i> Gould.	
May, 1844.			
i	174	<i>Helix setigera</i> Gould.	Sandwich Islands.
i	174	<i>stellula</i> Gould.	Sandwich Islands.

Jan. 1845.

ii 1 **Adams.**—Specierum novarum Conchyliorum in Jamaica reperi-
torum Synopsis: by C. B. ADAMS.

V. Pa.

ii	1	<i>Marginella rubella</i> Ad.
ii	1	<i>Erato</i> ? <i>cypæoides</i> Ad.
ii	2	<i>Mitra albo-cincta</i> Ad.
ii	2	<i>exigua</i> Ad. [Ad.
ii	2	<i>Columbella purpurascens</i>
ii	2	<i>subcostulata</i> Ad.
ii	2	<i>Buccinum candidissimum</i>
ii	2	<i>concinnum</i> Ad. [Ad.
ii	2	<i>obesum</i> Ad.
ii	2	<i>Purpura nodulosa</i> Ad.
ii	3	<i>Fusus muricoides</i> Ad.
ii	3	<i>Pleurotoma albo-macu-</i> <i>lata</i> Ad.
ii	3	<i>albo-cincta</i> Ad.
ii	3	<i>nigrescens</i> Ad.
ii	3	<i>trilineata</i> Ad.
ii	3	<i>albida</i> Ad.
ii	3	<i>multilineata</i> Ad.
ii	4	<i>albo-vittata</i> Ad.
ii	4	<i>candidissima</i> Ad.
ii	4	<i>fusca</i> Ad.
ii	4	<i>dubia</i> Ad.
ii	4	<i>minor</i> Ad.
ii	4	<i>fusco-lineata</i> Ad.
ii	4	<i>elatior</i> Ad.
ii	4	<i>Cerithium ambiguum</i> Ad.
		<i>C. lafondii</i> Ad.
ii	5	<i>gibberulum</i> Ad.

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ii	5	<i>Cerithium iota</i> Ad.
ii	5	<i>variabile</i> Ad.
ii	5	<i>mutabile</i> Ad.
ii	5	<i>algicola</i> Ad.
ii	5	<i>bicolor</i> Ad.
ii	6	<i>Rissoa albida</i> Ad.
ii	6	<i>affinis</i> Ad.
ii	6	<i>scalarella</i> Ad.
ii	6	<i>tervaricosa</i> Ad.
ii	6	<i>crassicosta</i> Ad.
ii	6	<i>Eulima Jamaicensis</i> Ad.
ii	6	<i>Chemnitzia Babylonica</i> Ad.
ii	6	<i>Monodonta maculo-stri-</i> <i>angulata</i> Ad. [ata Ad.
ii	7	<i>livido-maculata</i> Ad.
ii	7	<i>Turbo</i> ? <i>pulchellus</i> Ad.
ii	7	<i>Scalaria modesta</i> Ad.
ii	7	<i>Nerita præcognita</i> Ad.
ii	7	<i>Neritina pygmæa</i> Ad.
ii	8	<i>Fissurella elongata</i> Ad.
ii	8	<i>Patella tenera</i> Ad.
ii	8	<i>albicosta</i> Ad.
ii	8	<i>Chiton squalidus</i> Ad.
ii	8	<i>costatus</i> Ad.
ii	8	<i>squamulosus</i> Ad.
ii	8	<i>multicostatus</i> Ad.
ii	9	<i>purpurascens</i> Ad.
ii	9	<i>papillosus</i> Ad.

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ii	9	<i>Chiton erythronotus</i> Ad.	ii	13	<i>Bulimus procerus</i> Ad.
ii	9	<i>Perna bicolor</i> Ad.	ii	13	<i>laeviusculus</i> Ad.
ii	9	<i>Arca tenera</i> Ad.	ii	13	<i>striatella</i> Ad.
ii	9	<i>Cardita ovata</i> Ad.	ii	13	<i>Achatina iota</i> Ad.
ii	9	<i>Thetis</i> Ad. (n. g.)	ii	13	<i>pellucens</i> Ad.
ii	9	<i>Thetis cerina</i> Ad.	ii	13	<i>costulata</i> Ad.
ii	9	<i>parva</i> Ad.	ii	13	<i>Phillipsii</i> Ad.
ii	9	<i>Lucina granulosa</i> Ad.	ii	13	<i>propinqua</i> Ad.
ii	10	<i>imbricatula</i> Ad.	ii	14	<i>vicina</i> Ad.
ii	10	<i>pulchella</i> Ad. [Ad.]	ii	14	<i>Griffithsii</i> Ad.
ii	10	<i>Amphidesma Jayanum</i>	ii	14	<i>Cylindrella? pygmæa</i> Ad.
ii	10	<i>Tellina decussatula</i> Ad.	ii	14	<i>Cumingii</i> Ad.
ii	10	<i>nitens</i> Ad.	ii	14	<i>cylindrus</i> Ad.
ii	10	<i>Psammobia purpureo-</i>	ii	14	<i>seminuda</i> Ad.
		<i>maculata</i> Ad.	ii	14	<i>Pupa fusiformis</i> Ad.
ii	10	<i>affinis</i> Ad.	ii	15	<i>nobilior</i> Ad.
ii	10	<i>biradiata</i> Ad.	ii	15	<i>obesa</i> Ad.
ii	10	<i>cerina</i> Ad.	ii	15	<i>rubella</i> Ad.
ii	11	<i>Cyclostoma Duffianum</i>	ii	15	<i>tenuidens</i> Ad.
ii	11	<i>Hillianum</i> Ad. [Ad.]	ii	15	<i>Helix peracutissima</i> Ad.
ii	11	<i>lima</i> Ad.	ii	15	<i>nemoraloides</i> Ad.
ii	11	<i>Bronnii</i> Ad.	ii	15	<i>subconica</i> Ad.
ii	11	<i>fusco-lineatum</i> Ad.	ii	15	<i>subpyramidalis</i> Ad.
ii	11	<i>pulchrius</i> Ad.	ii	16	<i>depressa</i> Ad.
ii	11	<i>Helicina Leana</i> Ad.	ii	16	<i>sincera</i> Ad.
ii	12	<i>lineata</i> Ad.	ii	16	<i>opalina</i> Ad.
ii	12	<i>solitaria</i> Ad.	ii	16	<i>pellucida</i> Ad.
ii	12	<i>Truncatella succinea</i> Ad.	ii	16	<i>peraffinis</i> Ad.
ii	12	<i>Cumingii</i> Ad.	ii	16	<i>arboreoides</i> Ad.
ii	12	<i>scalariformis</i> Ad.	ii	16	<i>tenerrima</i> Ad.
ii	12	<i>Pedipes globulosus</i> Ad.	ii	16	<i>dioscoricola</i> Ad.
		<i>P. quadridens</i> Pfr.?	ii	17	<i>Jayana</i> Ad.
ii	12	<i>Succinea contorta</i> Ad.	ii	17	<i>Paludina rivularis</i> Ad.
ii	12	<i>Bulimus octonoides</i> Ad.	ii	17	<i>Melania spinifera</i> Ad.
ii	12	<i>pallidus</i> Ad.	ii	17	<i>Planorbis dentiferus</i> Ad.
ii	18	Mighels. —Descriptions of Shells from the Sandwich Islands and other localities: by Dr. J. W. MIGHELS.			
ii	18	<i>Helix intercarinata</i> Migh.			Oahu.
ii	19	<i>subrutile</i> Migh.			Oahu.
ii	19	<i>tiara</i> Migh.			Kauai.
ii	19	<i>jugosa</i> Migh.			Waioli.
ii	19	<i>Helicina laciniosa</i> Migh.			Oahu.
ii	19	<i>rotelloidea</i> Migh.			Oahu.
ii	19	<i>Pupa admodesta</i> Migh.			Oahu.

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ii	19	<i>Bulimus armatus</i> Migh.	Hawaii.
ii	19	<i>pumicatus</i> Migh.	Oahu.
ii	20	<i>scutilus</i> Migh.	Oahu.
ii	20	<i>clausinus</i> Migh.	Hawaii.
ii	20	<i>Partula virgulata</i> Migh.	Waianai.
ii	20	<i>Achatina accineta</i> Migh.	Oahu.
ii	20	<i>turricula</i> Migh.	Oahu.
ii	20	<i>Achatinella nubilosa</i> Migh.	Oahu.
ii	20	<i>vestita</i> Migh.	Waianai and Hawaii.
ii	20	<i>viridans</i> Migh.	Oahu.
ii	21	<i>mustelina</i> Migh.	Waianai.
ii	21	<i>cingula</i> Migh.	Oahu.
ii	21	<i>venusta</i> Migh.	Oahu.
ii	21	<i>picta</i> Migh.	Oahu.
ii	21	<i>inornata</i> Migh.	Oahu.
ii	21	<i>Succinea patula</i> Migh.	Oahu.
ii	21	<i>caduca</i> Migh.	Oahu.
ii	21	<i>Physa umbilicata</i> Migh.	Oahu.
ii	21	<i>producta</i> Migh.	Oahu.
ii	22	<i>Paludina porrecta</i> Migh.	Oahu.
ii	22	<i>anthracina</i> Migh.	Tortola.
ii	22	<i>Sigaretus filicatus</i> Migh.	Zanzibar, E. Africa.
ii	22	<i>Solarium implexum</i> Migh.	Oahu.
ii	22	<i>cyclostomum</i> Migh.	Oahu.
ii	22	<i>Turbo rubricinctus</i> Migh.	Oahu.
ii	22	<i>Cerithium gracilentum</i> Migh.	Oahu.
ii	22	<i>maculosum</i> Migh.	Oahu.
ii	23	<i>laciniosum</i> Migh.	Oahu.
ii	23	<i>Pleurotoma crassilabrum</i> Migh.	Oahu.
ii	23	<i>rugosa</i> Migh.	Oahu.
ii	23	<i>acuminata</i> Migh.	Oahu.
ii	23	<i>coronata</i> Migh.	Oahu.
ii	23	<i>micans</i> Migh.	Oahu.
ii	23	<i>pumila</i> Migh.	Oahu.
ii	23	<i>sinuosa</i> Migh.	Oahu.
ii	24	<i>todilla</i> Migh.	Oahu.
ii	24	<i>circumsecta</i> Migh.	Oahu.
ii	24	<i>obnubila</i> Migh.	Oahu.
ii	24	<i>Triton lacunatum</i> Migh.	Oahu.
ii	24	<i>Cypræa semiplota</i> Migh.	Oahu.
ii	24	<i>insecta</i> Migh.	Oahu.
ii	24	<i>sphærule</i> Migh.	Oahu.
ii	25	<i>unifasciata</i> Migh.	Oahu.
ii	25	<i>spadix</i> Migh.	Oahu.

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| ii | 26 | <i>Achatina adusta</i> Gould. | Sandwich Islands. |
| ii | 26 | <i>Stomatella concinna</i> Gould. | Sandwich Islands. |
| ii | 27 | <i>Trochus verruca</i> Gould. | Sandwich Islands. |
| ii | 27 | (<i>Monodonta</i>) <i>gemmatus</i> Gould. | Sandwich Islands. |
| ii | 27 | <i>Columbella palumbina</i> Gould. | Sandwich Islands. |
| ii | 27 | <i>Cypræa gemmula</i> Gould. | Sandwich Islands. |
| ii | 27 | <i>Achatinella radiata</i> Gould. | Sandwich Islands. |
| ii | 27 | <i>rubens</i> Gould. | Sandwich Islands. |
| ii | 28 | <i>nucleola</i> Gould. | Sandwich Islands. |
| ii | 28 | <i>microstoma</i> Gould. | Sandwich Islands. |
| ii | 28 | <i>fuliginosa</i> Gould. | Sandwich Islands. |
| ii | 28 | <i>striatula</i> Gould. | Sandwich Islands. |

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ii 37 **Dr. A. A. Gould.**

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| ii | 37 | <i>Pholas branchiata</i> Gould. | Liberia. |
| ii | 37 | <i>Psammobia figlina</i> Gould. | Liberia. |
| ii | 37 | <i>Tellina rubicunda</i> Gould. | Liberia. |
| ii | 37 | <i>Nucula bicuspidata</i> Gould. | Liberia. |
| ii | 37 | <i>Nassa turbinea</i> Gould. | Liberia. |
| ii | 38 | <i>elata</i> Gould. | Liberia. |
| ii | 38 | <i>Helix hepatizon</i> Gould. | M. of Gaboon river. |

Jan. 1846.

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| ii | 98 | <i>Helix saturnia</i> Gould. | Tavoy, Burmah. |
| ii | 99 | <i>refuga</i> Gould. | Tavoy, Burmah. |
| ii | 99 | <i>honesta</i> Gould. | Tavoy, Burmah. |
| ii | 99 | <i>Bulimus moniliferus</i> Gould. | Tavoy, Burmah. |
| ii | 99 | <i>Pupa melita</i> Gould. | Tavoy, Burmah. |
| ii | 100 | <i>Succinea semiserica</i> Gould. | Tavoy, Burmah. |
| ii | 100 | <i>Melania Herculea</i> Gould. | Tavoy, Burmah. |
| ii | 100 | <i>Amnicola cincta</i> Gould. | Tavoy, Burmah. |
| ii | 100 | <i>Nucula turgida</i> Gould. | Tavoy, Burmah. |
| ii | 101 | <i>Bulimus turnix</i> Gould. | Organ Mts., Brazil. |

ii 102 **C. B. Adams.**

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| ii | 102 | <i>Planorbis pallidus</i> Adams. | Jamaica. |
| ii | 102 | <i>Cyclostoma maritimum</i> Adams. | Jamaica. |
| ii | 102 | <i>Helicina affinis</i> Adams. | Jamaica. |
| ii | 102 | <i>Pupa rosea</i> Adams. | Jamaica. |
| ii | 103 | <i>Lima pellucida</i> Adams. | Jamaica. |

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- ii 133 Memoir on Mollusca of Jamaica.
- ii 134 (List of New England Shells found in Jamaica)—
- ii 134 *Buccinum vibex* Say.
- ii 134 *Cerithium terebrale*.
- ii 134 *Limnea umbilicata*.
- ii 134 *Helix chersina*.
- ii 134 *Pupa contracta*.
- ii 134 *rupicola*.
- ii 134 *Modiola barbata*.
- ii 134 *Lucina divaricata*.

ii 141 **Dr. A. A. Gould.**

[The descriptions of the Mollusks of Wilkes' Exploring Expedition were also published in pamphlet form, under the title of "Expedition Shells."—W. G. B.]

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| ii 142 | <i>Chiton quercinus</i> Gould. | New South Wales. |
| ii 142 | <i>jugosus</i> Gould. | New South Wales. |
| ii 142 | <i>fruticosus</i> Gould. | New South Wales. |
| ii 143 | <i>platessa</i> Gould. | New South Wales. |
| ii 143 | <i>jaspideus</i> Gould. | Callao. |
| ii 143 | <i>puniceus</i> Gould. | Orange Harbor. |
| ii 143 | <i>confossus</i> Gould. | Feejee Islands. |
| ii 144 | <i>pruinosis</i> Gould. | Rio Janeiro. |
| ii 144 | <i>viridulus</i> Gould. | Orange Harbor. |
| ii 144 | <i>petaloides</i> Gould. | Sandwich Islands. |
| ii 145 | <i>incanus</i> Gould. | New South Wales. |
| ii 148 | <i>Patella talcosa</i> Gould. | Hawaii. |
| ii 148 | <i>sagittata</i> Gould. | Feejee Islands. |
| ii 149 | <i>illuminata</i> Gould. | Auckland Island. |
| ii 149 | <i>citrullus</i> Gould. | Funchal, Madeira. |
| ii 150 | <i>Paumotensis</i> Gould. | Feejees, &c. |
| ii 150 | <i>luctuosa</i> Gould. | New Zealand. |
| ii 150 | <i>piperata</i> Gould. | C. de Verd & Madeira. |
| ii 151 | <i>cinnamomea</i> Gould. | New South Wales. |
| ii 151 | <i>Lottia cymbiola</i> Gould. | Valparaiso. |
| ii 152 | <i>Patella (Lottia?) araneosa</i> Gould. | Sooloo Sea. |

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| ii 153 | <i>Siphonaria cornuta</i> Gould. | Mangsi Island. |
| ii 153 | <i>inculta</i> Gould. | New Zealand. |
| ii 153 | <i>lateralis</i> Gould. | Burnt Isl., Or. Harbor. |
| ii 154 | <i>lepida</i> Gould. | Rio Janeiro. |
| ii 154 | <i>normalis</i> Gould. | Sandwich Islands. |

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ii	154	Emarginulla aspera Gould.	New South Wales.
ii	154	fungina Gould.	Upolu.
ii	155	ossea Gould.	Feejees.
ii	155	cinerea Gould.	
ii	155	verna Gould.	Cape de Verde.
ii	156	occidens Gould.	Callao.
ii	156	cruciata Gould.	Sooloo Sea.
ii	161	Calyptrea radiosa Gould.	Mangsi Island.
ii	161	chlorina Gould.	Cape de Verds.
ii	161	Hipponix imbricata Gould.	Sandwich Islands.
ii	162	Pileopsis crystallina Gould.	Feejee Islands.
ii	165	Helix gulosa Gould.	New South Wales.
ii	166	zig-zag Gould.	New Zealand.
ii	166	pedestris Gould.	New South Wales.
ii	167	mutata Gould.	Rio Janeiro.
ii	167	lyrata Gould.	Terra del Fuego.
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ii	171	Helix pusillus Gould.	Mountains of Maui.
ii	171	saxatilis Gould.	Terra del Fuego.
ii	171	exæquata Gould.	Kauai.
ii	171	cicercula Gould.	Mountains of Hawaii.
ii	171	cryptoportica Gould.	
ii	172	cultrata Gould.	Taheiti and Eimeo.
ii	172	pertenuis Gould.	Aurora Island.
ii	172	gradata Gould.	Tongataboo.
ii	172	fornicata Gould.	Kauai.
ii	173	rubiginosa Gould.	Kauai.
ii	173	dædalea Gould.	Matea Island.
ii	175	obolus Gould.	Taheiti.
ii	175	bursatella Gould.	Taheiti and Eimeo.
ii	175	tumulus Gould.	Feejees.
ii	176	tentoriolum Gould.	Upolu.
ii	176	troilus (<i>Carocolla</i>) Gould.	Samoa Island.
ii	176	cressida Gould.	Samoa Isl. and Taheiti.
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ii	177	Eurydice Gould.	Tongataboo.
ii	177	subtilissima Gould.	Maui.
ii	178	(<i>Nanina</i>) scorpio Gould.	Feejee Islands.
ii	178	ruida Gould.	Feejee Islands.
ii	178	irradiata Gould.	New Holland.
ii	178	rubricata Gould.	Lebouka, Feejees.
ii	179	lurida Gould.	Feejees.
ii	179	calva Gould.	Feejees.

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ii	180	nitida Gould.	Madeira.
ii	181	caperata Gould.	Kauai.
ii	181	marcida Gould.	Madeira.
ii	181	tenella Gould.	Kauai.
ii	181	robusta Gould.	New South Wales.
ii	182	rotundata Gould.	Oahu.
ii	182	cepulla Gould.	Hawaii.
ii	182	putamen Gould.	Upolu.
ii	183	vesicalis Gould.	Mauna Kea, Hawaii.
ii	183	lumbalis Gould.	Kauai.
ii	183	humerosa Gould.	Taheiti.
ii	183	crocata Gould.	Upolu.
ii	184	canella Gould.	Maui.
ii	185	Magellanica Gould.	Terra del Fuego.
ii	185	Manuana Gould.	Manua.
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ii	186	venusta Gould.	Hawaii.
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ii	190	Bulimus elobatus Gould.	Feejees.
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ii	191	prolatus Gould.	Santiago, Chili.
ii	191	ciliatus Gould.	Organ Mount's, Brazil.
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ii	191	junceus Gould.	Society and Sandwich
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ii	196	Partula conica Gould.	Samoa Isl., Raraka Isl.
ii	196	zebrina Gould.	Samoa Isl., Tutuila.
ii	197	pusilla Gould.	Matea Island.
ii	197	Pupa (Vertigo) tantilla Gould.	Taheiti.
ii	197	peponum Gould.	Sandwich Islands.
ii	197	(Megaspira) elata Gould.	Brazil.
ii	198	Balea peregrina Gould.	New Zealand.
ii	200	Achatinella marmorata Gould.	Maui.
ii	200	ellipsoidea Gould.	Maui.
ii	200	acuminata Gould.	Kauai.
ii	201	cerealis Gould.	Oahu.
ii	201	guttula Gould.	Maui.
ii	201	Helicina fulgora Gould.	Upolu, Manua.
ii	201	musiva Gould.	Upolu, Manua.
ii	202	trochlea Gould.	Matea Island.

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ii	202	Helicina multicolor Gould.	Tongataboo.
ii	202	uberta Gould.	Maui, Oahu.
ii	202	beryllina Gould.	Feejees.
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ii	204	Cyclostoma tiara Gould.	Upolu.
ii	204	strigatum Gould.	Upolu.
ii	205	plicatum Gould.	Upolu.
ii	205	obligatum Gould.	Matea.
ii	205	diatretum Gould.	Feejees.
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ii	206	terebrale Gould.	Taheiti, Eimeo.
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ii	206	citulum Gould.	Taheiti, Eimeo, Manua.
ii	208	Truncatella aurantia Gould.	Mangsi Island, Borneo.
ii	208	Vitiana Gould.	Feejees.
ii	208	porrecta Gould.	Taheiti.
ii	209	rostrata Gould.	Rio Janeiro.
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ii	210	Ancylus aduncus Gould.	Madeira.
ii	211	Dombeya fasciata Gould.	Concon river, Chili.
ii	211	obovata Gould.	Concon river, Chili.
ii	211	Limnea volutata Gould.	Oahu.
ii	214	Physa tabulata Gould.	New Zealand.
ii	214	gibbosa Gould.	New South Wales.
ii	214	sinuata Gould.	Feejees.
ii	214	reticulata Gould.	Sandwich Islands.
ii	215	venustula Gould.	Lima.
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ii	219	Melania pagodula Gould.	Thoungyin river.
ii	219	baccata Gould.	Thoungyin river.
ii	219	humerosa Gould.	Manko, Tavoy.
ii	219	fluctuosa Gould.	Newville, Tavoy.
ii	220	Neritina capillulata Gould.	Tavoy.
ii	220	Nerita articulata Gould.	Tavoy.
ii	220	Nematura puncticulata Gould.	Tavoy.
ii	220	Unio generosus Gould.	Newville, Tavoy.
ii	222	Melania Cybele Gould.	Feejees, &c.
ii	222	tetrica Gould.	Feejees.
ii	222	Terpsichore Gould.	Feejees, &c.
ii	223	corolla Gould.	Bank's Penin., N. Zld.
ii	223	lutosa Gould.	Upolu.
ii	223	corporosa Gould.	Taheiti.
ii	224	Scipio Gould.	Samoa and Feejee Isls.
ii	224	vainafa Gould.	Upolu.

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ii	224	<i>Melania scitula</i> Gould.	Upolu.
July, 1847.			
ii	225	<i>furfurosa</i> Gould.	Manilla.
ii	225	<i>Melanopsis Zelandica</i> Gould.	New Zealand.
ii	237	<i>Neritina percata</i> Gould.	
ii	237	<i>cholerica</i> Gould.	Feejees.
ii	237	<i>chrysocolla</i> Gould.	Upolu.
ii	238	<i>helvola</i> Gould.	Feejees.
ii	238	<i>siderea</i> Gould.	Feejees.
ii	238	<i>amœna</i> Gould.	
ii	238	<i>musiva</i> Gould.	
ii	239	<i>soluta</i> Gould.	
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ii	251	<i>Bulla parallela</i> Gould.	
ii	251	<i>Tornatella bullata</i> Gould.	Patagonia.
ii	251	<i>Haliotis crispata</i> Gould.	New Holland.
ii	252	<i>Scalaria gracillenta</i> Gould.	Mangsi Island.
ii	252	<i>texturata</i> Gould.	
Nov. 1848.			
iii	73	<i>Natica algida</i> Gould.	Rio Negro.
iii	73	<i>dilecta</i> Gould.	
iii	73	<i>Stomatella decolorata</i> Gould.	Mangsi Island.
iii	74	<i>tumida</i> Gould.	China Seas.
iii	74	<i>Ampullaria columellaris</i> Gould.	Mayna, Peru.
iii	74	<i>Amnicola badia</i> Gould.	Bank's Penin., N. Zld.
iii	75	<i>egena</i> Gould.	Bank's Penin., N. Zld.
iii	75	<i>Litlopa decussata</i> Gould.	Lat. 37° 40' N., long. 54° 30' W.
March, 1849.			
iii	83	<i>Littorina caliginosa</i> Gould.	Terra del Fuego.
iii	84	<i>acuminata</i> Gould.	Mangsi Island.
iii	84	<i>Stylifer acicula</i> Gould.	Feejee Islands.
iii	84	<i>Solarium egenum</i> Gould.	
iii	89	<i>Turbo confragosus</i> Gould.	Dean's Island.
iii	90	<i>sirius</i> Gould.	New Holland.
iii	90	<i>laciniatus</i> Gould.	Manilla.
iii	90	<i>Trochus pruninus</i> Gould.	Auckland Island.
iii	90	<i>texturatus</i> Gould.	New Zealand.
iii	91	<i>vupillus</i> Gould.	New Zealand.
iii	91	<i>jucundus</i> Gould.	New Zealand.
iii	91	<i>gradatus</i> Gould.	Pacific Island.
iii	92	<i>acinosus</i> Gould.	New Zealand.
iii	92	<i>ellus</i> Gould.	Singapore.

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iii	106	Trochus bicrenatus Gould.	
iii	106	circumsutus Gould.	Madagascar?
iii	106	spurcus Gould.	Madeira.
iii	107	amcenus Gould.	Feejee Islands.
iii	107	(Monodonta) colubrinus Gld.	Madeira.
iii	107	instrictus Gould.	Pacific Island.
iii	107	atropurpureus Gould.	Tutuilla.
iii	108	rotellinus Gould.	Mangsi Island.

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iii	118	tantillus Gould.	Sandwich Islands.
iii	118	Planaxis lineolatus Gould.	Wilson's Island.
iii	118	Pyramidella ambigua Gould.	Clermont Tonnere Isl.
iii	119	Cerithium aduncum Gould.	Mindanao.
iii	119	irroratum Gould.	
iii	119	sordidulum Gould.	
iii	120	invaginatum Gould.	Feejee Islands.
iii	120	cælatum Gould.	Terra del Fuego.
iii	120	pusillum Gould.	Sandwich Islands.
iii	121	egenum Gould.	Wilson's Island.
iii	121	ianthinum Gould.	Clermont Tonnere.
iii	140	Pleurotoma seminifera Gould.	
iii	140	Mangelia cithara Gould.	Feejee Islands.
iii	141	Fusus liratus Gould.	Orange Harbor.
iii	141	crispus Gould.	Orange Harbor.
iii	141	incisus Gould.	
iii	142	sublutus Gould.	
iii	142	Brazilianum Gould.	Rio Janeiro.
iii	143	Triton mundum Gould.	Tutuilla.
iii	143	Phos varicosus Gould.	Philippine Islands.
iii	143	Murex (Trophon) fruticosus Gld.	New Holland.

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iii	151	Buccinum (Bullia?) velatum Gld.	Mindanao.
iii	152	funereum Gould.	New Zealand.
iii	152	(Pollia) farinosum Gould.	Kauai.
iii	153	Nassa musiva Gould.	Cape de Verd Islands.
iii	153	lurida Gould.	Tutuilla.
iii	153	curta Gould.	Samoa Island.
iii	154	cinctella Gould.	Pacific Ocean.
iii	154	casta Gould.	Pacific Ocean.
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iii	155	paupera Gould.	Pacific Ocean.
iii	155	rubricata Gould.	Pacific Shore.

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iii	169	<i>Columbella valga</i> Gould.	Pacific.
iii	170	<i>castanea</i> Gould.	Rio Janeiro.
iii	170	<i>Mitra vitellina</i> Gould.	
iii	170	<i>fidicula</i> Gould.	
iii	171	<i>cophina</i> Gould.	Singapore.
iii	171	<i>robata</i> Gould.	
iii	171	<i>capillata</i> Gould.	Madeira.
iii	172	<i>encausta</i> Gould.	Feejee Islands.
iii	172	<i>Conus dilectus</i> Gould.	Feejee Islands.
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iii	193	<i>Vaginulus Liberianus</i> Gould.	Liberia.
iii	193	<i>Succinea spurca</i> Gould.	Liberia.
iii	193	<i>helicoidea</i> Gould.	Liberia.
iii	194	<i>Helix indecorata</i> Gould.	Liberia.
iii	194	<i>cerea</i> Gould.	Cape Palmas.
iii	194	<i>talcosa</i> Gould.	Cape Palmas.
iii	194	<i>Bulimus mucidus</i> Gould.	Liberia.
iii	195	<i>infracinctus</i> Gould.	Taboo, Liberia.
iii	195	<i>Achatina ventricosa</i> Gould.	Liberia.
iii	195	<i>balteata</i> Gould.	Liberia.
iii	196	<i>paritura</i> Gould.	Liberia.
iii	196	<i>Amnicola ciliata</i> Gould.	Deca river, Liberia.
iii	196	<i>Ampullaria balanoidea</i> Gould.	Liberia.
iii	197	<i>Trichotropis pusillus</i> Gould.	Liberia.
iii	197	<i>Aplysia fimbriata</i> Gould.	South America.
iii	197	<i>Bulimus interstinctus</i> Gould.	
		<i>B. rubicundulus</i> Gould.	
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iii	214	<i>Pholas patula</i> Gould.	Philippine Islands.
iii	214	<i>Solen scalprum</i> Gould.	Singapore.
iii	214	<i>Panopæa antarctica</i> Gould.	Rio Negro, Patagonia.
iii	215	<i>Mactra deluta</i> Gould.	New Zealand.
iii	216	<i>cuneola</i> Gould.	Callao.
iii	216	<i>marcida</i> Gould.	Orange Harbor.
iii	217	<i>Mesodesma munda</i> Gould.	Mangsi.
iii	217	<i>Pandora cistula</i> Gould.	East Patagonia.
iii	218	<i>Osteodesma Braziliensis</i> Gould.	Rio Janeiro.
iii	218	<i>Amphidesma croceum</i> Gould.	Callao.
iii	218	<i>Erycina (Poronia) ovata</i> Gould.	Sandwich Islands.
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iii	252	<i>(Kellia) quadrata</i> Gould.	Feejee Islands.
iii	252	<i>Tellina tithonia</i> Gould.	Soqloo Sea.
iii	252	<i>lauta</i> Gould.	

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iii	253	<i>exculpta</i> Gould.	Feejee Islands.
iii	253	<i>concentrica</i> Gould.	Feejee Islands.
iii	254	<i>perula</i> Gould.	Feejee Islands.
iii	254	<i>Psammobia florida</i> Gould.	Illawarra, N. S. Wales.
iii	254	<i>Donax pallidus</i> Gould.	Singapore.
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iii	255	<i>croceatus</i> Gould.	Mangsi.
iii	255	<i>Lucina ramulosa</i> Gould.	Paumotu Island.
iii	255	<i>inculta</i> Gould.	New Zealand.
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iii	293	<i>Cyrena debilis</i> Gould.	New Holland?
iii	293	<i>Anodon glauca</i> Gould.	Peru.
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iii	296	<i>dorsuosus</i> Gould.	Eastern Asia.
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Rafinesque.—On eight Asiatic bivalve fluviatile Shells. In the Appendix to the Continuation of a Monograph, &c. (vide p. 4): by C. S. RAFINESQUE.

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6	<i>similis</i> Raf.	Ganges.
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7	<i>argyratus</i> Raf.	Ganges.
7	<i>corrugata</i> Auct.	Baramputra.
7	(<i>Obliquaria</i> ? <i>Aximedia</i> ?) Raf.	
7	Longocilla Raf. (n. g.)	
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Harris.—Account of Pawpaw or Cowry Shells found in Dorchester, in a letter to the Hon. John Davis, Esq.: by Rev. THADDEUS MASON HARRIS, F. A. A. (In Mem. American Academy of Arts and Sciences, vol. iii, pt. 1. Cambridge, 1809, pp. 159, 160.)

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40	viii	19	i	152	<i>lacteolus</i> Lea. R. de la Plata.
42	v	13	i	154	<i>Symphynota Woodiana</i> Lea. China.
43	v	14	i	155	<i>magnifica</i> Lea. China.
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50	xix	58	i	162	<i>virginea</i> Lea. Java. [69].
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51	xix	59	i	163	<i>Helix muscarum</i> Lea. Society Islands.
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60	viii	20	i	172	<i>Unio parallelipedon</i> Lea. River Parana.
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80	xiii	37	i	192	<i>Mortoniana</i> Lea. River Parana.
81	xix	72	i	193	<i>Melania aculeus</i> Lea. Java?
81	xix	73	i	193	<i>Lymnæa imperialis</i> Lea. South America?
82	xix	74	i	194	<i>Melanopsis princeps</i> Lea. C. of Good Hope.
82	xix	75	i	194	<i>maculata</i> Lea. Peru.
83	xix	76	i	195	<i>Auricula fuscagula</i> Lea. Brazil (Cuba, ii,
84	xix	77	i	196	<i>Cyclostoma striata</i> Lea. Peru. [69).
99	xiv	42	i	311	<i>Unio Paranensis</i> Lea. River Parana.
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107	xvii	51	i	219	<i>Cyrena rotundata</i> Lea. [Lea.
108	xvii	52	i	320	<i>Jayensis</i> Lea. Batavia?
109	xviii	53	i	321	<i>turgida</i> Lea. India.
110	xviii	55	i	322	<i>Woodiana</i> Lea. Canton.
111	xviii		i	323	<i>Aprodite</i> Lea. (n. g.)
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66	xxiii	111	ii	66	<i>corneus</i> Lea. Buena Vista, Co- lumbia.
68	xxiii	87	ii	68	<i>Cyclostoma maculata</i> Lea. Manila.
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83	xxiii				<i>indiformis</i> Lea. New Grenada.
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					" Carthagena.
					" Lea. New Grenada.

[Lea, Observations, &c.]

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Obs.

Pa.	Pl.	Fig.	V.	Pa.	
85	xxiii	102	ii	85	<i>Bulimus gracilis</i> Lea. Carthagenæ.
86	xxiii	108	ii	86	<i>decoratus</i> Lea. Carthagenæ.
86	xxiii	112	ii	86	<i>maculatus</i> Lea. Carthagenæ.
89	xxiii	88	ii	89	<i>Helix magnifica</i> Lea. New Grenada.
90	xxiii	78	ii	90	<i>Paludina sinistrorsa</i> Lea. India.
94	xxiii	76	ii	94	<i>Cyclostoma Popayana</i> Lea. New Grenada.
98	xxiii	73	ii	98	<i>Carocolla Hydiana</i> Lea. Porto Cabello.
108	xxiv	116	ii	108	<i>Unio Brownianus</i> Lea. River Amazon.
121			ii	121	Synopsis of the family of Naiades.
141			ii	141	<i>Platiris</i> Lea (n. g.)
141			ii	141	<i>Spatha</i> Lea (n. s. g.)

Vol. vii. 1841.

455					Description of nineteen new species of Colimacea.
455	xi	1			<i>Bulimus subglobosus</i> Lea. Philippine Islds.
455	xi	2			<i>virido-striatus</i> Lea. Philippine Islds.
456	xi	3			<i>virginicus</i> Lea. Philippine Islds.
457	xi	4			<i>Liberianus</i> Lea. Liberia.
457	xi	5			<i>Woodianus</i> Lea. Philippine Islds.
458	xi	6			<i>gracilis</i> Lea. Philippine Islds.
458	xi	7			<i>carinatus</i> Lea. Philippine Islds.
459	xi	8			<i>bicoloratus</i> Lea. Philippine Islds.
459	xii	9			<i>Helix Blandingianus</i> Lea. Liberia.
460	xii	10			<i>Balestieriana</i> Lea. Philippine Islds.
461	xii	11			<i>Lamarckiana</i> Lea. Philippine Islds.
461	xii	12			<i>Cuvieriana</i> Lea. Philippine Islds.
462	xii	13			<i>luteo-fasciata</i> Lea. Philippine Islds.
462	xii	14			<i>cepoides</i> Lea. Philippine Islds.
463	xii	15			<i>Blainvilliana</i> Lea. Philippine Islds.
463	xii	16			<i>Humphreysiana</i> Lea. Pondicherry, Singapore.
464	xii	17			<i>ferruginea</i> Lea. Philippine Islds.
465	xii	18			<i>Carocolla bifasciata</i> Lea. Philippine Islds.
465	xii	19			<i>Cyclostoma Woodiana</i> Lea. Philippine Islds.

Vol. viii. 1843.

192	vii	2	iii	30	<i>Unio cucumoides</i> Lea. Hunter's r., N. S.
218	xvii	35	iii	55	<i>delphinus</i> Lea. N. Holland? [W.]
220	xviii	37	iii	56	<i>Javanus</i> Lea. Java.
221	xviii	38	iii	58	<i>orientalis</i> Lea. [ana Lea, Java?]
222	xviii	39	iii	59	<i>Margaritana Vondenbuschi</i> -Java?

[Lea, Observations, &c.]

Tr. A. P. S. Vol. viii. 1843.			Obs.			
Pa.	Pl.	Fig.	V.	Pa.		
239	xxiii	53	iii	77	<i>Unio Rajahensis</i> Lea.	Calcutta.
240	xxiii	55	iii	78	<i>Anodonta Montezuma</i> Lea.	Central America.
Vol. ix. 1844.						
2			iv	2	<i>Bulimus Jayanus</i> Lea.	Java?
2			iv	2	<i>Achatina turbinata</i> Lea.	Liberia.
3			iv	3	<i>striata</i> Lea.	Liberia.
3			iv	3	<i>Succinea gracilis</i> Lea.	Java?
5			iv	5	<i>Candeana</i> Lea.	Martinique.
5			iv	5	<i>fulgens</i> Lea.	Cuba.
12			iv	12	<i>Lymnæa rubella</i> Lea.	Oahu.
Vol. ix. 1846.						
281	xlili	11	iv	39	<i>Unio superbus</i> Lea.	New Holland.
282	xlili	12	iv	50	<i>aratus</i> Lea.	

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New Fresh Water and Land Shells.

282	xxiv	41	v	38	<i>Ingallsianus</i> Lea.	Siam.
288	xxvi	48	v	43	<i>Anodonta Trautrimiana</i> Lea.	Carthagera.
288	xxvi	49	v	43	<i>Wheatleyi</i> Lea.	Para, S. A.
291	xxviii	54	v	47	<i>tortilis</i> Lea.	Carthagera.
292	xxiv	55	v	48	<i>Schröteriana</i> Lea.	Rio Negro, Br.
295			v	51	<i>Basistoma</i> Lea (n. g.)	
296	xxx	1	v	52	<i>Edwardsi</i> Lea.	Tecotinusr., S.A.

Journ. A. N. S. Obs.
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- 125 On the genus *Acostæa* of D'Orbigny, a Fresh Water Lamellibranchiata (pp. 125-132).

Vol. iii. Jan. 1853.

New Fresh Water and Land Shells.

289	xxi	1	vi	9	<i>Unio Hainesianus</i> Lea.	Siam.
290	xxii	2	vi	10	<i>Myersianus</i> Lea.	Siam.
291	xxiii	3	vi	11	<i>Housei</i> Lea.	Siam.
291	xxiv	4	vi	11	<i>luteus</i> Lea.	Newville, Bur-
					<i>U. luteus</i> Lea.	[mah.
292	xxiv	5	vi	12	<i>gravidus</i> Lea.	Siam.
293	xxiv	6	vi	13	<i>inornatus</i> Lea.	Siam.
294	xxv	7	vi	14	<i>rusticus</i> Lea.	Siam.
294	xxv	8	vi	14	<i>eximius</i> Lea.	Siam.
295	xxv	9	vi	15	<i>tumidulus</i> Lea.	Siam.
296	xxvi	10	vi	16	<i>humilis</i> Lea.	Siam.

[Lea, Observations, &c.]

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Pa.	Pl.	Fig.	V.	Pa.	
297	xxvi	11	vi	17	Unio phaselus Lea. Siam.
298	xxvi	12	vi	18	sagittarius Lea. Siam.
299	xxvi	13	vi	19	scobinatus Lea. Siam.
300	xxvi	14	vi	20	substriatus Lea. Siam.
300	xxvii	15	vi	20	Africanus Lea. C. of Good Hope.
301	xxvii	16	vi	21	Verreauxianus Lea. C. of Good Hope.
302	xxvii	17	vi	22	Shurtleffianus Lea. Sina river, India.
303	xxviii	18	vi	23	effulgens Lea. Brazil.
304	xxviii	19	vi	24	Shuttleworthii Lea. Australia.
305	xxviii	20	vi	25	Dunkerianus Lea. Rio de Janeiro.
306	xxviii	21	vi	26	nucleus Lea. Siam.
307	xxix	22	vi	27	Brownii Lea. Mocha?
308	xxix	23	vi	28	Wheatleyanus Lea. R. Negro, Plata.
309	xxix	24	vi	29	Suavidicus Lea. River Amazon.
310	xxx	25	vi	30	Nuttallianus Lea. India.
312	xxx	27	vi	32	Newcombianus Lea. Nicaragua.
313	xxx	28	vi	33	Cambodiensis Lea. Tackrong river.
316	xxxii	31	vi	36	Anodonta Holtonis Lea. Carthage, New
317			vi	37	Plagiodon Lea (n. s. g.) [Grenada.]
318	xxxii	32	vi	38	isocardioides Lea. River Plata.
319	xxxiii	33	vi	39	Triquetra contorta Lea. China.
					<i>T. lanceolata</i> Lea.

Haldeman, Phillips, Conrad, Lea, &c.—The
Proceedings of the Academy of Natural Sciences of Philadelphia.

July, 1841.

Vol. Pa. Pl. Fig.

i 53 **Haldeman.**—(Same as p. 372.)i 53 **Pisidium diaphanum** Hald. Brazil?

May, 1846.

iii 66 **Phillips.**—Description of a new Fresh Water Shell,
and observations on *Glandina obtusa* Pfr.: by JOHN
S. PHILLIPS.

iii 66 i 11 **Physa princeps** Phil. Yucatan.

iii 66 i 33 **Glandina (Achatina) cylindracea** Phil. Yucatan.

G. obtusa Pfr.?

[Proceedings Academy of Natural Sc.]

Dec. 1848.

Vol. Pa.

iv 121 **Conrad.**—(Vide p. 373.)

iv 121 **Triton nobilis** *Conr.* West Indies.
T. variegatus Rve.

Feb. 1850.

v 10 **Conrad.**—Descriptions of new species of Fresh Water
 Shells: by T. A. CONRAD. (Vide, also, p. 374.)

v 10 **Unio cultelliformis** *Conr.* Bogan river, Australia.
 v 10 **Napeanensis** *Conr.* Napean riv., Australia.
 v 10 **Balonnensis** *Conr.* Balonne r., Australia.
 v 10 **Paludina sublineata** *Conr.* Darling r., Australia.
 v 11 **Physa pectorosa** *Conr.* Bogan river, Australia.
 v 11 **Australiana** *Conr.* Bogan river, Australia.
 v 11 **Melania tetrica** *Conr.* Rivers of Australia.
 v 11 **Balonnensis** *Conr.* Balonne r., Australia.
 v 11 **Lymnea perlevis** *Conr.* Salamanca and Balonne rs., Australia.

Oct. 1851.

v 277 **I. Lea.**—Notices on—

v 277 **Mulleria Ferussacii** *Lea.* New Granada.
 v 277 **Guaduasana** *D'Orb.* New Granada.
Acostea guaduasana D'Or.

March, 1852.

vi 54 **I. Lea.**—Description of a new species of Symphynote
 Unio: by I. LEA.

vi 54 **Unio Cumingii** *Lea.* North of China.

Feb. 1852.

vi 267 **Conrad.**—(Vide p. 382.)

[Several foreign genera and sub-genera of Unionidae are given.—
 W. G. B.]

Aug. 1853.

vi 376 **I. Lea.**—Notes on—

vi 376 **Unio Kraussii** *Lea.*
Castalia sulcata Krauss.
 vi 376 **Dipsas plicatus** *Lea.* Liberia.
Anodonta Herculea Midd.
 vi 376 **Unio superbus** *Lea.* Danu-Luar river.
U. macropterus Dunk.
 vi 377 **cucumoides** *Lea.* Sumatra.
U. Cumingii Dunk.

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Dec. 1853.

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- vi 448 **T. A. Conrad.**—Synopsis of *Cassidula*, &c. (vide p. 383).
- vi 448 ***Cassidula hippocastanum*.** Samar.
Murex hippocastanum Born.
Buccinum calcaratum Sol.
Cassidula calcarata Humphr.
Murex calcaratus Dill.
Pyrula galeodes Lam.
- vi 448 ***melongena*.** West Indies.
Murex melongena Linn.
Pyrula melongena Lam.
- vi 448 ***bispinosa* Conr.**
Pyrula bispinosa Phil.
- vi 449 ***patula* Conr.** Caraccas Bay.
- vi 449 **? *parasidiaca*.**
Pyrum parasidiacum Mart.
Pyrula nodosa Lam.

vi 449 **T. A. Conrad.***Requienia Senseni* Conr. = *Arietina* Conr. (n. s. g.)

Jan. 1854.

vii 1 **I. Lea.**—Note on—*Acostæa guaduasana* D'Orb.

March, 1854.

vii 32 **Conrad.**—(Vide p. 384.)vii 32 ***Bulimus lineolatus* Conr.** Volcano of Cartago,
Costa Rica.

June, 1855.

- vii 375 **Stimpson.**—Descriptions of some of the new Marine Invertebrata from the Chinese and Japanese Seas, &c. : by WILLIAM STIMPSON, Zoologist to the United States Surveying Expedition to North Pacific, Japan Seas, &c., Lieut. John Rodgers, Commander.
- vii 377 ***Ascidia tubifera* St.** China.
- vii 377 ***calcata* St.** Japan.
- vii 377 ***Schizascus* St. (n. g.)**
- vii 377 ***pellucidus* St.** China.
- vii 377 ***papillosus* St.** China.
- vii 377 ***Molgula labeculifera* St.** China.

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vii	377	Cynthia satsumensis <i>St.</i>	Japan.
vii	377	<i>delicatula St.</i>	Tanegasima.
vii	377	<i>ocellifera St.</i>	China.
vii	378	<i>gemmata St.</i>	China.
vii	378	<i>araneosa St.</i>	China.
vii	378	Coriocella punctata <i>St.</i>	Ousima.
vii	378	<i>tuberosa St.</i>	China.
vii	378	Aplysia laevigata <i>St.</i>	Ousima.
vii	378	Notarchus gibbosus <i>St.</i>	China.
vii	378	<i>lineolatus St.</i>	Loo Choo.
vii	378	Placobranchus guttatus <i>St.</i>	Loo Choo.
vii	379	Eolis humilis <i>St.</i>	China.
vii	379	Gymnodoris <i>St.</i> (n. g.)	
vii	379	<i>maculata St.</i>	Loo Choo.
vii	379	Polycera ? ramulosa <i>St.</i>	China.
vii	379	Idalia tentaculata <i>St.</i>	China.
vii	379	Hemidoris <i>St.</i> (n. g.)	
vii	379	<i>cœruleata St.</i>	China.
vii	379	Doris indurata <i>St.</i>	China.
vii	379	<i>gibberosa St.</i>	China.
vii	380	<i>olivacea St.</i>	Loo Choo.
vii	380	<i>Rogersii St.</i>	Kikaisima.
vii	380	<i>areolata St.</i>	Boninsima.
vii	380	<i>nigra St.</i>	Loo Choo, Kikaisima.
vii	380	<i>latens St.</i>	Loo Choo.
vii	380	Onchis fruticosa <i>St.</i>	Kikaisima.

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(Continued.)

vii	387	Cynthia angularis <i>St.</i>	C. of Good Hope, Simon's Bay.
vii	387	<i>lævissima St.</i>	Port Jackson, Aus.
vii	387	<i>sabulosa St.</i>	Port Jackson, Aus.
vii	387	<i>dumosa St.</i>	Port Jackson, Aus.
vii	387	Molgula inconspicua <i>St.</i>	Port Jackson, Aus.
vii	387	Ascidia sydneyensis <i>St.</i>	Port Jackson, Aus.
vii	388	<i>succida St.</i>	Port Jackson, Aus.
vii	388	Eolis cacaotica <i>St.</i>	Port Jackson, Aus.
vii	388	Tritonia pallida <i>St.</i>	False Bay, C. of G. H.
vii	388	Triopa lucida <i>St.</i>	Simon's Bay, C. of G. H.
vii	388	Goniodoris obscura <i>St.</i>	Port Jackson, Aus.
vii	389	Doris obtusa <i>St.</i>	Port Jackson, Aus.
vii	389	<i>excavata St.</i>	Port Jackson, Aus.

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viii	79	Lea. —Description of a new sub-genus of Naiades: by ISAAC LEA.	
viii	79	Plagiodon <i>Lea</i> (n. s. g.)	
viii	79	isocardioides <i>Lea.</i>	Rio Plata.
viii	79	Lea. —Description of a new species of <i>Triquetra Kleia</i> (<i>Hyria Lam.</i>): by ISAAC LEA.	
viii	79	Triquetra lanceolata <i>Lea.</i>	China?
viii	92	Lea. —Description of twenty-five new species of Exotic Uniones: by ISAAC LEA.	
viii	92	Unio Hainesianus <i>Lea.</i>	Siam.
viii	92	Myersianus <i>Lea.</i>	Siam.
viii	92	Housei <i>Lea.</i>	Siam.
viii	93	gravidus <i>Lea.</i>	Siam.
viii	93	inornatus <i>Lea.</i>	Siam.
viii	93	lutens <i>Lea</i>	Newville, Burmah.
viii	93	eximius <i>Lea.</i>	Siam.
viii	93	tumidulus <i>Lea.</i>	Siam.
viii	93	rusticus <i>Lea.</i>	Siam.
viii	93	sagittarius <i>Lea.</i>	Siam.
viii	93	substriatus <i>Lea.</i>	Siam.
viii	93	scobinatus <i>Lea.</i>	Siam.
viii	93	humilis <i>Lea.</i>	Siam.
viii	94	phaselus <i>Lea.</i>	Siam.
viii	94	Verreaudianus <i>Lea.</i>	Cape of Good Hope.
viii	94	Africanus <i>Lea.</i>	Cape of Good Hope.
viii	94	Shurtleffianus <i>Lea.</i>	Sina river, &c., India.
viii	94	exfulgens <i>Lea.</i>	Brazil.
viii	94	Dunkerianus <i>Lea.</i>	Brazil, &c.
viii	94	Shuttleworthii <i>Lea.</i>	Australia.
viii	94	nucleus <i>Lea.</i>	Siam.
viii	94	Wheatleyanus <i>Lea.</i>	Rio Plata, Rio Negro.
viii	95	Brownii <i>Lea.</i>	Mocha?
viii	95	suavidicus <i>Lea.</i>	River Amazon.
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viii	103	Lea. —Description of four new species of Exotic Uniones: by ISAAC LEA.	
viii	103	Unio Nuttallianus <i>Lea.</i>	India.
viii	103	Cambodiensis <i>Lea.</i>	Takrong riv., at Korat, Cambodia.
viii	105	Newcombianus <i>Lea.</i>	Lake Nicaragua.

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viii 109

Lea.—Description of thirteen new species of Exotic Peristomata: by ISAAC LEA.

viii 109

Paludina Hainesiana Lea. Siam.

viii 109

umbilicata Lea. Takrong river, Siam.

viii 110

chinensis Lea. China.

viii 110

Swainsoniana Lea. Siam.

viii 110

Ingallsiana Lea. Siam.

viii 110

Bithinia Siamensis Lea. Takrong river, Siam.

viii 110

globula Lea. India.

viii 110

Paludomus maculata Lea. Ahmednugger, India.

viii 110

Ampullaria aurostoma Lea. Carthage.

viii 110

tubæformis Lea.

viii 110

gracilis Lea. Siam.

viii 110

turbinis Lea. Siam.

viii 111

Assimineæ carinata Lea. Siam.

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viii 144

Lea.—Description of fifteen new species of Exotic Melanians: by ISAAC LEA.

viii 144

Melania Verrauliana Lea. Sandwich Islands.

viii 144

fraterna Lea.

viii 144

Hainesiana Lea. India. [Siam.]

viii 144

Housei Lea. Korat, Takrong river,

viii 144

Ningpoensis Lea. Ningpo, China.

viii 145

Myersiana Lea. Feejee Islands.

viii 145

bullata Lea. Brazil.

viii 145

lyræformis Lea. Manila.

viii 145

affinis Lea. Manila.

viii 145

australis Lea. Manila.

viii 145

Newcombii Lea. Oahu.

viii 145

Maulensis Lea. Maui.

viii 145

Boninensis Lea. Bonin Island.

viii 145

Pachychilus parvum Lea. Siam.

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viii 300

Isaac Lea.—Notes on—

viii 300

Triquetra contorta Lea. Shanghai.*T. lanceolata* Lea.

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85 **Lea.**—Descriptions, &c., vide p. 387.

85

Papayan, South America.

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May, 1838.

Page.

- 118 **Lea.**—Description of four new Fresh Water Mollusca from the Isthmus of Darien and Honduras: by ISAAC LEA.
- 118 **Unio Caldwellii** *Lea.* Isthmus of Darien.
- 118 **Goascoranensis** *Lea.* Riv. Goascoran, Honduras.
- 118 **Anodonta luteola** *Lea.* Isthmus of Darien.
- 118 **Melania planensis** *Lea.* Plan, &c., Honduras.

May, 1839.

- 151 **Lea.**—Descriptions of twenty-one new species of Exotic Unionidæ: by ISAAC LEA.
- 151 **Unio Sikkimensis** *Lea.* Sikkim, India.
- 151 **diminutis** *Lea.* East Africa.
- 152 **plicatulus** *Lea.* Borneo.
- 152 **navigioliformis** *Lea.*
- 152 **fluotiger** *Lea.*
- 152 **mutabilis** *Lea.* Australia, &c.
- 152 **Thwaitesii** *Lea.* Ceylon.
- 152 **melleus** *Lea.*
- 152 **Dysoni** *Lea.* Honduras.
- 152 **Demararaensis** *Lea.* Demarara.
- 152 **Mauritianus** *Lea.* Mauritius.
- 153 **vittatus** *Lea.* Australia.
- 153 **Shanghaiensis** *Lea.* Shanghai.
- 153 **Layardii** *Lea.* Ceylon.
- 153 **Japanensis** *Lea.* Japan.
- 153 **Sumatrensis** *Lea.* Sumatra.
- 153 **Rowellii** *Lea.* Chagres riv., N. Granada.
- 153 **Wilsoni** *Lea.* Isaac's Plain, N. S. W.
- 154 **Anodonta Dahomeyensis** *Lea.* Dahomey.
- 154 **Senegalensis** *Lea.* Senegal.

July, 1839.

- 187 **Lea.**—Descriptions of four new species of Exotic Unionidæ: by ISAAC LEA.
- 187 **Unio bulloides** *Lea.* R. de la Plata.
- 187 **Monochondylæa planulata** *Lea.* Java.
- 187 **rhomboidea** *Lea.* Euphrates, near Bagdad.
- 187 **Unio rudus** *Lea.* R. de la Plata.

Oct. 1839.

- 231 **Lea.**—Description of a new species of *Unio* from the Isthmus of Darien: by ISAAC LEA.
- 231 **Unio Averyi** *Lea.* Isthmus of Darien.

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331 **Lea.**—Descriptions of three new species of Exotic Uniones: by
ISAAC LEA.

331	Unio Wynegungaensis Lea.	Bengal, &c.
331	consobrinus Lea.	China.
331	Nangpoorensis Lea.	Nangpoor, &c.

Lesueur, Conrad, &c.—Journal of the Academy of
Natural Sciences of Philadelphia.*

Vol. i, pt. 1, No. 1. May, 1817.

Pa. Pl. Fig.

3 **Lesueur.**—Description of six new species of the genus
Firola, observed by Messrs. Lesueur and Peron in the
Mediterranean Sea, in the months of March and April,
1809: by C. A. LESUEUR. (Vide also, Bull. Sc. Soc.
Philom. 1817, pp. 157–160; and Isis, 1818, p. 155.)

3	Genus <i>Firola</i> .	
6 i	1	<i>Firola mutica</i> Les.
6 i	2	<i>gibbosa</i> Les.
7 i	3	<i>Forskalia</i> Les.
7 i	4	<i>Cuviera</i> Per. & Les.
7 i	5	<i>Frederica</i> Les.
7 i	6	<i>Peronia</i> Les.

Vol. 1, pt. 1, No. 3. July, 1817.

37 **Lesueur.**—Characters of a new genus, and descriptions
of three new species upon which it is formed: discovered
in the Atlantic Ocean, in the months of March and April,
1816. Lat. 20° 9': by C. A. LESUEUR.

38	Firaloida Les. (n. g.)	
39 ii	1 ^b	<i>Desmarestia</i> Les. Near Martinique.
39 ii	2 ^a	<i>Blainvilliana</i> Les. Near Martinique.
40 ii	3	<i>aculeata</i> Les.
40 ii	4, 10	Anatomy of <i>Firola</i> .

Vol. ii, pt. 1. 1821.

Lesueur.—(See p. 6.)

[The following foreign species are also given.—W. G. B.]—

89	Leachia (n. g.)	
90 vi	Leachia cyclura Les.	Pacific Ocean.

* The date of actual publication of each page is given on p. 58, vol. i. of Proc. A. N. S.

[Journal of the Academy.]

Pa.	Pl.	Fig.		
90	vii		Loligo Bartrami Les.	
95	?		Bartlingii Les.	Gulf Stream.
100			Sepiola cardioptera Peron.	Lat. 31° S., long. 48° E.
100			Sepia sepiola Peron.	Endrach, N. Holland.
101			<i>octopa</i> Peron = Peronii Les.	Dorre, Shark Bay.
101			<i>rugosa</i> Peron non Bosc. = Sepia Boscii Les.	
101			varietas Peron.	Dorre Island.

Vol. II, pt. 2. 1822.

296 **Lesueur.**—On the *Onykia angulata*: by C. A. LESUEUR.

298 ? 1, 2 **Onykia angulata** Les. Lat. 36° 40' S., long. [29° E.
 (See also p. 100 of same vol.)

Vol. III, pt. 1. 1823.

2 **Lesueur.**—Descriptions of several new species of
Ascidia: by C. A. LESUEUR. (See also *Philosp. Mag.*,
 vol. 63, 1824, p. 321; and *Isis*, 1834, p. 160.)

2	i	2	Ascidia atra Les.	St. Vincent's, &c.
2	i	1	cavernosa Les.	St. Bartholomew.
3	ii	1	albeola Les.	Guadaloupe.
4	ii	2, 3, 4	multiformis Les.	Guadaloupe.
4	ii	5	variabilis Les.	St. Thomas.
5	i	3	claviformis Les.	St. Vincent's.
5	iii	b	plicata Les.	Ship Bottom.
6	iii	a	ovalis Les.	Ship Bottom.
7			lobifera Les.	

[Here follows a list, without descriptions of species, observed by
 Peron and Lesueur in their voyage to Terra Australis.—W. G. B.]

8		marginella.	New Holland, &c.
8		vermiculata.	New Holland.
8		anatifoidea.	Isle of France.
8		confederata.	New Holland.
8		trinema.	Leuwin's Land.
8		fragum.	Elephant Bay, &c.
8		truncata.	Bass' Straits.
8		rapuliformis.	Endracht's Land.
8		gigantea.	Bourgainville Bay.
8		lithopoda.	Décres Island.
8		rhizophora.	Endracht's Land.
8		rosea.	Bourgainville Bay.
8		alba.	Bourgainville Bay.
8		barbata.	Nice, Europe.
8		pilosa.	Isle of France.

[Journal of the Academy.]

Pa. Pl. Fig.

8	Ascidia fasciata.	Isle of France.
8	radiata.	Havre, Europe.
8	diaphana.	King's Island.
8	phyllostoma.	King's Island, &c.
8	tetradon.	Josephine's Island, &c.
8	peniformis.	Nuyt's Land.
8	australis.	Maria's Island.
8	lithoidea.	Leuwin's Land.
8	nigrita.	Edel's Land.
8	rhizophora.	Napoleon's Land.
8	anthropocephala.	St. Francis' Land, &c.
8	nasuta.	N.W. Coast of N. Hol'd.
8	democratica.	St. Francis' Land, &c.
8	verrucosa.	King's Island.
8	polystoma.	King's Island.

Vol. vi, pt. 2. March, 1831.

256 **Conrad.**—(Vide p. 337.)262 xi 21 **Nucula recurva** *Conr.* West Indies.262 xi 9, 10 **Lucina sphaeroides** *Conr.* Liberia.
Tellina divaricata Ch.

Vol. vii, pt. 1. 1834.

178 **Conrad.**—Description of a new genus of Fresh Water
Shells: by T. A. CONRAD.180 xiii **Pleiodon Macmurtrei** *Conr.* Liberia.182 **Conrad.**—Description of a new species of Hinnita: by
T. A. CONRAD.182 xiv **Hinnita Poulsoni** *Conr.*

Vol. vii, pt. 2. 1837.

227 **Conrad.**—(Vide p. 419.)

Conrad.—Notes on Shells, with descriptions of new genera and species: by T. A. CONRAD. (From Journ. Ac. Nat. Sc. Phila., n. s., vol. i, No. 3, p. 210. Aug. 1849.) (Vide also, p. 404.)

[The foreign species only are here given.—W. G. B.]

Page.

210	Cassia cornuta <i>Linn.</i>	East Indies.
	<i>Buccinum brevicastrum</i> <i>Potliver.</i>	
	<i>Cassia Ambuineensis</i> <i>Potliver.</i>	

Page.		
210	Cassis labiata Chemn.	Indies.
211	tuberosa Linn.	
	<i>Cochlea cassidiformis</i> Gualt.	
	<i>Cassis fluminea</i> .	
211	Triton tuberosus .	
211	pyriformis .	
212	variegatus Lam.	East Indies.
	<i>Buccinum tritonis</i> Petiver.	
	<i>Murex tritonis</i> Linn.	
212	nobilis Conr.	West Indies.
	<i>T. variegatus</i> Rve.	
212	variegatus .	West Indies.
213	Nautilus perforatus Conr.	
214	Pecten fragosus Conr. (pl. xxxix, f. 11).	West Indies.

Garratt.—(Descriptions of Hawaiian Shells.) In Proc. California Acad. Nat. Sciences, San Francisco. Vol. i, part 2. March, 1857, p. 102.

Page.		Page.	
102	Murex exigua Garr.	103	Rissoa multicostrata Garr.
102	Purpura striatella Garr.	103	Adeorbis costata Garr.
102	Turbo multilineata Garr.	103	Hipponix (Amalthea) minor Garr.
102	Trochus striatula (Margarita) Garr.	103	Bulla scripta Garr.
102	Pleurotoma (Mangella) reticulata Garr.	103	Succinea Newcombiana Garr.
102	Rissoa crassilabrum Garr.		

Barnes, Redfield, Adams, &c.—Annals of the Lyceum of Natural History of New York.

Vol. i, pt. 1. 1824.

Pl. Fig.

131 **Barnes.**—Notice of several species of Shells: by D. H. BARNES.

[A criticism by Ferussac on this paper in which the descriptions are repeated will be found in the Bulletin des Sciences Naturelles et de Géologie, 2ème section du Bulletin Universel des Sciences, &c. &c. Tome v, p. 282. Paris, 1825.—W. G. B.]

132 ix 1 **Cypræa maculata** Barnes. East Indies.
C. Arabica Burrow.

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Pa.	Pl.	Fig.		
133	ix	2	<i>Cypræa eburnea</i> Barnes.	China
135	ix	3	<i>Dolium dentatum</i> Barnes.	Peru.
136			<i>Natica patula</i> Sowb.	Peru.
			<i>N. helicoides</i> Barnes, MS.	
139	ix	4	<i>Voluta harpa</i> Barnes.	Peru.

Vol. 1, pt. 2. 1825.

383 (Continuation.)

384 *Dolium dentatum* Barnes = *D. ringens*?385 *Natica helicoides* (vid. also Ann. vol. ii. 292).385 *Cypræa maculata*.[Plate ix contains also figures of two species not mentioned in the text. They are probably *Cerithium* — J.—W. G. B.]

Vol. iv, pt. 3. 1846.

163 **Redfield.**—Descriptions of some new species of Shells:
by JOHN H. REDFIELD. (See also, p. 164 of Bibl.)

163	x	4 ^{a, b}	<i>Marginella flavida</i> Redf.	Cuba, &c.
164	x	5 ^{a, b}	<i>obesa</i> Redf.	Carthagenæ, S. Amer.
166	x	6 ^{a, b}	<i>Ranella Thersites</i> Redf.	Pacific?
168	xi	1 ^{a, b, c}	<i>Cardium setosum</i> Redf.	China.

169 **Jay.**—Descriptions of new species of Shells: by JOHN C.
JAY, M. D.

169	x	7 ^{a, b}	<i>Bulimus infundibuliformis</i> Jay.	Bolivia.
169	x	8 ^{a, b}	<i>Conus Cailliaudii</i> Jay.	

170 Notes on—

170			<i>Bulimus cinctus</i> Jay = <i>B. Favonii</i> Lam.	Madagascar.
170			<i>Turbo rotelliformis</i> Jay = <i>Trochiscus Norrisii</i> Sowb.	
170			<i>Ampullaria Brownii</i> Jay = <i>A. crassa</i> Swains.	
170			<i>Storeria</i> Jay = <i>A. naticoides</i> D'Orb.	
170			<i>Helix planorbis</i> Jay = <i>H. monilis</i> Br.	
170			<i>Physa scalaris</i> Jay.	
170			<i>Lymnea gracilis</i> Jay.	
170			<i>Bulimus ustulatus</i> Jay = <i>B. chrysalidiformis</i> Sowb.	
170			<i>Paludina tristes</i> Jay = <i>P. olivacea</i> Sowb.	
170			<i>Conus rhododendron</i> Couth. = <i>C. Adameoni</i> Gr.	
170			<i>Cyclotoma Cumingii</i> Sowb. = <i>C. gigantea</i> Sowerb.	
170			<i>Voluta armata</i> ? Lam. = <i>V. Miltoni</i> Gr.	

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Vol. iv. 1847.

Pa. Pl. Fig.

- 477 **Redfield.**—On the distinctive characters of *Cypræa reticulata* of Martyn, and *Cypræa histrio* of Meuschen: by JOHN H. REDFIELD.
- 482 xvi 1 **Cypræa reticulata** Mart. Pacific Ocean.
C. arlequina (var.) Chemn.
histrio (pars) Gmel.
arabica (var.) *histrio* Gr.
maculata Barnes, &c. &c.
- 484 xvi 2 **histrio** Meuschen. Indian Ocean?
C. arlequina Ch.
arabica (var.) *histrio* (pars) Gray.
- 491 **Redfield.**—Descriptions of new species of *Bullia* and *Marginella*, with notes upon G. B. Sowerby, Jr.'s monograph of the latter genus: by JOHN H. REDFIELD.
- 491 xxii 1 **Bullia plicata** Redf.?
- 492 xxii 2 **Marginella chrysomelina** Red. West Indies?
- 492 xxii 3 **Philippinarum** Redf. Philippine Islands.
M. arena Sowb. non Kien.
- 493 **cærulescens** Lam.
- 493 **Storeria** Couth.
- 493 **unicolor** List.
- 493 **curta** Sowb.
- 493 **elegans** Gmel.
- 493 **undulata** Ch.
- 493 **conoidalis** Kien.
- 493 **apicina** Mke.
- 493 **flavida** Redf.
- 493 **triticea** Lam.
- 493 **guttata** Swains.
- 493 **longivartiosa** Lam.
- 493 **maculosa** Kien.
- 493 **obesa** Redf.
M. similis Sowb.
- 493 **pyrulata** Redf.
M. obesa Sowb.
- 495 **persicula** Linn.
- 495 **carnea** Stover.
- 495 **guttata** Dillw.
- 495 **avellana** Lam.
- 495 **lineata** Lam.
- 495 **cingulata** Dillw.

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Vol. v, title page. 1852.

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Page. No. Page.

- 41 8 125 **Adams.**—Descriptions of new species of *Partula*
and *Achatinella*: by Prof. C. B. ADAMS.

[As this and the following papers were also issued as portions
of "Contributions to Conchology," I refer to that work as well
as to the New York Annals.—W. G. B.]

- 41 8 125 **Partula diminuta** *Ad.*
41 8 125 **Achatinella magna** *Ad.*
42 8 126 **Tappaniana** *Ad.* Sandwich Islands.
42 8 126 **Dimondi** *Ad.* Sandwich Islands.
43 8 127 **var. ? lata** *Ad.* Sandwich Islands.
43 8 127 **decepta** *Ad.*
44 8 128 **modesta** *Ad.* Sandwich Islands.
44 8 128 **Reevei** *Ad.*
A. viridans Reeve. not Mighels.
- 45 8 129 **Adams.**—Descriptions of new species and varieties
of Shells which inhabit Jamaica: by Prof. C. B.
ADAMS. (From same, p. 45.)
- 45 8 129 **Cyclostoma pulchrius** *Ad.* = *C. Binneyanum* Pfr.
45 8 129 **Cylindrella nobillior** (Pupa) *Ad.* = *C. Bin-*
neyana Pfr.
- 45 8 129 **Helix arboreoides** *Ad.* = **H. Haldemaniana** Pfr.
46 8 130 **Marginella gracilis** *Ad.*
46 8 130 **Buccinum pulchellum** *Ad.*
47 8 131 **Pleurotoma albella** *Ad.*
47 8 131 **Valvata inconspicua** *Ad.*
47 8 131 **Planorbis humilis** *Ad.*
48 8 132 **dentiferus** *Ad.*
48 8 132 **var. edentatus** *Ad.*
48 8 132 **Ancylus obliquus** *Ad.*
48 8 132 **Truncatella modesta** *Ad.*
49 8 133 **Helicina nobilis** *Ad.*
49 8 133 **hirsuta** *Ad.*
50 8 134 **palliata** *Ad.*
50 8 134 **maxima** *Ad.*
50 8 134 **ampliata** *Ad.*
50 8 134 **consanguinea** *Ad.*
51 8 135 **microstoma** *Ad.*
52 8 136 **depressa** *Ad.*
53 8 136 **Trochatella Josephinae** *Ad.*
53 8 136 **Tankesvillii** *Ad.*

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53	8	137	Cyclostoma sagittiferum <i>Ad.</i>
54	8	138	<i>lamellosum</i> <i>Ad.</i>
54	8	138	<i>simulans</i> <i>Ad.</i>
55	8	139	<i>tennistriatum</i> <i>Ad.</i>
55	8	139	<i>modestum</i> <i>Ad.</i>
55	8	139	<i>fimbriatulum</i> <i>Ad.</i>
56	8	140	<i>lincina</i> <i>Ad.</i>
56	8	140	<i>nodulosum</i> <i>Ad.</i>
56	8	140	<i>granosum</i> <i>Ad.</i>
56	8	140	Adams. —Analysis of the group of species of <i>Cyclostoma</i> , which is represented by <i>C. Jamaicense</i> <i>Chem.</i> (From same.)
59	8	143	Cyclostoma corrugatum? <i>Sowb.</i>
59	8	143	<i>jugosum</i> <i>Ad.</i>
59	8	143	<i>pallescens</i> <i>Ad.</i>
59	8	143	<i>varians</i> <i>Ad.</i>
59	8	143	<i>seminudum</i> <i>Ad.</i>
59	8	143	<i>Jamaicense</i> <i>Chemn.</i>
59	8	143	<i>crassum</i> <i>Ad.</i>
64	8	148	Stoastoma <i>Ad.</i>
64	8	148	Cyclostoma succineum <i>Sowb.</i>
64	8	148	Stoastoma Vilkinsoniæ <i>Ad.</i>
65	8	149	<i>Tappanianum</i> <i>Ad.</i>
65	8	149	<i>Hollandianum</i> <i>Ad.</i>
66	8	150	<i>Moricandianum</i> <i>Ad.</i>
67	8	151	<i>Petitianum</i> <i>Ad.</i>
67	8	151	<i>Anthonianum</i> <i>Ad.</i>
77	9	153	Adams. —Descriptions of new species and varieties of the Land Shells of Jamaica, with notes on some previously described species : by Prof. C. B. ADAMS. (From same.)
77	9	153	Cyclostoma Hillianum (var.) <i>leporilabre</i> <i>Ad.</i>
77	9	153	<i>Cyclostoma spinulosum</i> <i>Ad.</i> = <i>C. lincinellum</i> <i>Lam.</i>
77	9	153	Cyclostoma Moussonianum <i>Ad.</i>
78	9	154	<i>Cyclostoma amandum</i> <i>Ad.</i> = <i>C. scabriculum</i> <i>Sowb.</i>
78	9	154	<i>Cyclostoma virginicum</i> <i>Ad.</i> = <i>C. pisum</i> <i>Ad.</i>
78	9	154	<i>Cyclostoma concentricum</i> <i>Ad.</i> = <i>C. variabile</i> <i>Ad.</i>
78	9	154	<i>Cyclostoma mutatum</i> <i>Ad.</i> = <i>C. articulatum</i> <i>Sowb.</i>
78	9	154	Cyclostoma filosum <i>Sowb.</i> = <i>C. articulatum</i> <i>Gray.</i>
78	9	154	<i>Campbellii</i> <i>Ad.</i>

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79	9	155	<i>Cyclostoma xanthostoma</i> Ad.
79	9	155	<i>ignilabre</i> Ad.
79	9	155	<i>Cyclostoma proximum</i> Ad. = <i>C. fascia</i> Gray.
79	9	155	<i>Cyclostoma nitens</i> Ad.
79	9	155	<i>Augustæ</i> Ad.
79	9	155	<i>Jayanum</i> Ad.
79	9	155	<i>Augustæ</i> Ad.
79	9	155	<i>Chevalieri</i> Ad.
80	9	156	<i>album</i> (var.) <i>fuscum</i> Ad.
80	9	156	<i>Yallahense</i> Ad.
80	9	156	<i>sericinum</i> Ad.
81	9	157	<i>Tappanianum</i> Ad.
81	9	157	<i>papyraceum</i> Ad.
81	9	157	<i>perpallidum</i> Ad.
81	9	157	<i>dubiosum</i> Ad.
82	9	158	<i>Stoastoma Philipianum</i> Ad.
82	9	158	<i>Agassizianum</i> Ad.
83	9	159	<i>Trochatella pulchella</i> Ad.
83	9	159	<i>Helicina neritella</i> Ad.
83	9	159	<i>Geomelania Hilliana</i> Ad.
83	9	159	<i>pyramidata</i> Ad.
84	9	160	<i>costulosa</i> Ad.
84	9	160	<i>exilis</i> Ad.
84	9	160	<i>Hilliana</i> Ad.
84	9	160	<i>striosa</i> Ad.
84	9	160	<i>conica</i> Ad.
84	9	160	<i>Cylindrella Agnesiana</i> (var.) <i>diminuta</i> Ad.
84	9	160	<i>Robertsi</i> Ad.
85	9	161	<i>rosea</i> Ad.
85	9	161	var. <i>fortis</i> Ad.
85	9	161	<i>major</i> Ad.
85	9	161	<i>zonata</i> Ad.
85	9	161	<i>lata</i> Ad.
85	9	161	<i>Maugeri</i> Ad.
86	9	162	var. <i>nigrescens</i> Ad.
86	9	162	<i>solida</i> Ad.
86	9	162	<i>levis</i> Ad.
87	9	163	<i>tricolor</i> Ad.
87	9	163	<i>crassa</i> Ad.
87	9	163	<i>unicincta</i> Ad.
88	9	164	<i>bicincta</i> Ad.
88	9	164	<i>concinna</i> Ad.
88	9	164	<i>sinuata</i> Ad.

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88	9	164	Cylindrella Mangeri (var.) rufilabris Ad.
88	9	164	<i>oitrina Ad.</i>
88	9	164	<i>fusiformis Ad.</i>
89	9	165	<i>albida Ad.</i>
89	9	165	<i>valida Ad.</i>
89	9	165	<i>unicolor Ad.</i>
89	9	165	<i>striatula Ad.</i>
89	9	165	<i>striata Ad.</i>
89	9	165	<i>corpulenta Ad.</i>
89	9	165	<i>fusca Ad.</i>
90	9	166	<i>conica Ad.</i>
90	9	166	<i>tesselata Ad.</i>
90	9	166	<i>olivacea Ad.</i>
90	9	166	<i>gracilis Ad.</i>
90	9	166	<i>integra Ad.</i>
91	9	167	<i>princeps Ad.</i>
91	9	167	<i>elatior Ad.</i>
91	9	167	<i>Achatina striosa Ad.</i> = Bulimus octonoides Ad.
91	9	167	<i>Achatina proxima Ad.</i>
92	9	168	<i>solitaria Ad.</i>
92	9	168	Spiraxis brevis Ad.
92	9	168	<i>aberrans Ad.</i>
92	9	168	<i>Bulimus mirabilis Ad.</i> and <i>anomalus</i> = Spiraxis.
92	9	168	Bulimus hortensis Ad.
93	9	169	<i>macrospira Ad.</i>
93	9	169	Helix Chittyana Ad.
93	9	169	<i>cara Ad.</i>
93	9	169	<i>amabilis Ad.</i>
93	9	169	<i>Swainsoniana Ad.</i>
94	9	170	<i>ingens Ad.</i>
94	9	170	<i>consanguinea Ad.</i>
95	9	171	<i>anomala Ad.</i>
95	9	171	<i>Bainbridgei Ad.</i>
95	9	171	Buddiana Ad.
96	9	172	<i>Blandiana Ad.</i>
96	9	172	<i>pulchrior Ad.</i>
96	9	172	Jacobensis Ad.
97	9	173	<i>spreti Ad.</i>
97	9	173	<i>var. errans Ad.</i>
97	9	173	<i>epistylum Ad.</i>
98	9	174	<i>delaminata Ad.</i>
98	9	174	<i>osculans.</i>
98	9	174	Proserpina nitida Ad.

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98	9	174	Adams. —Descriptions of new Fresh Water Shells which inhabit Jamaica: by Prof. C. B. ADAMS. (From same.)
98	9	174	Physa Jamaicensis Ad.
99	9	175	Neritina Jamaicensis Ad.
99	9	175	tenebricosa Ad.
100	9	176	Adams and Chitty. —Remarks on the habitats of certain species of Land Shells: by Prof. C. B. ADAMS and EDWARD CHITTY. (From same.)
100	9	176	Cyclostoma labeo Ad.
100	9	176	asperulum Sowb.
100	9	176	corrugatum Ad.
100	9	176	Trochatella Greyana Pfr.
100	9	176	Helicina Gossei Pfr.
100	9	176	picta Fer.
100	9	176	Cylindrella alabastrina Pfr.
100	9	176	Humboldtiana Pfr.
100	9	176	variegata Pfr.
100	9	176	Bulimus rufescens Gray.
100	9	176	Helix Martiniana Pfr.
100	9	176	Okeniana Pfr.
101	9	177	angustata Fer.
101	9	177	Cyclostoma lincinellum Lam.
101	9	177	spinulosum Ad.
101	9	177	Banksianum Sowb.
101	9	177	hyacinthinum Ad.
101	9	177	mirabile Wood.
101	9	177	decussatulum Ad.
101	9	177	Cylindrella brevis Pfr.
101	2	177	Achatina leucozonias Ad.
101	9	177	Dominicensis Ad.
101	9	177	venusta Ad.
101	9	177	unicolor Pfr.
101	9	177	Cyclostoma Newcombianum Ad.
101	9	177	aurora Ad.
101	9	177	Tappanianum Ad.
			(Errata to No. 8.)
102	9	178	asperulum Ad.

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103 9 179 **Adams.**—Catalogue of the Land Shells which inhabit Jamaica: by Prof. C. B. ADAMS. (From same.)

103 9 179 **Cyclostoma anomalum** Ad.

pulchrum Wood.

fimbriatulum Sowb.

var. *docens* Ad.

albinodatum Ad.

Chittyi Ad.

amabile Ad.

Hillianum Ad.

var. *aculeosum* Ad.

leporilabre Ad.

lincinellum Lam.

C. spinulosum? Ad.

103 9 179 **Moussonianum** Ad.

103 9 179 *scabriculum* Sowb.

C. amandum Ad.

103 9 179 **lincinum** Linn.

103 9 179 **lima** Ad.

103 9 179 **Blandianum** Ad.

103 9 179 **retrorsum** Ad.

103 9 179 **pisum** Ad.

C. virgineum Ad.

103 9 179 **variabile** Ad.

103 9 179 var. *concentricum* Ad.

103 9 179 **intermedium** Ad.

103 9 179 **Grayanum** Ad.

C. obscurum Gray.

103 9 179 **serriferum** Ad.

103 9 179 **granosum** Ad.

C. nodulosum Ad.

103 9 179 var. **aberrans** Ad.

103 9 179 **pulchrius** Ad.

C. Binneyanum Pfr.

103 9 179 **mutatum** Ad.

C. articulatum Sowb.

103 9 179 **mirabile** Wood.

C. decussatum? Ad.

103 9 179 **mirandum** Ad.

103 9 179 **moribundum** Ad.

103 9 179 **monstrosus** Ad.

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104	9	180	Cyclostoma Vilkinsoni <i>Ad.</i>
104	9	180	modestum <i>Ad.</i>
104	9	180	Campbellii <i>Ad.</i>
104	9	180	avena <i>Ad.</i>
104	9	180	Shepardianum <i>Ad.</i>
104	9	180	xanthostoma <i>Sowb.</i>
104	9	180	var. albilabre <i>Ad.</i>
104	9	180	tenuistriatum <i>Ad.</i>
104	9	180	ignilabre <i>Ad.</i>
104	9	180	var. albilabre <i>Ad.</i>
104	9	180	Newcombianum <i>Ad.</i>
104	9	180	fascia <i>Gray.</i>
104	9	180	var. proximum <i>Ad.</i>
104	9	180	Augustæ <i>Ad.</i>
104	9	180	var. nitens <i>Ad.</i>
104	9	180	testudineum <i>Ad.</i>
104	9	180	rufilabre <i>Ad.</i>
104	9	180	sagittiferum <i>Ad.</i>
104	9	180	thysanoraphe <i>Sowb.</i>
104	9	180	Jayanum <i>Ad.</i>
			C. solidum <i>Ad.</i> non Mks.
104	9	180	var. rufilabre <i>Ad.</i>
104	9	180	nigrilabre <i>Ad.</i>
104	9	180	Redfieldianum <i>Ad.</i>
104	9	180	labeo <i>Müll.</i>
104	9	180	Humphreysianum <i>Pfr.</i>
			C. pictum <i>Sowb.</i>
104	9	180	interruptum <i>Lam.</i> non <i>Deless.</i>
			C. ambiguum <i>Deless. Chenu,</i> non <i>Lam.</i>
104	9	180	Chevallieri <i>Ad.</i>
104	9	180	var. album <i>Ad.</i>
104	9	180	virgatum <i>Ad.</i>
104	9	180	album <i>Lam.</i>
104	9	180	var. fuscum <i>Ad.</i>
104	9	180	Bronnii <i>Ad.</i>
104	9	180	var. fuscolineatum <i>Ad.</i>
104	9	180	Banksianum <i>Sowb.</i>
104	9	180	var. hyacinthinum <i>Ad.</i>
104	9	180	Yallahense <i>Ad.</i>
104	9	180	lamellosum <i>Ad.</i>
104	9	180	tectilabre <i>Ad.</i>
104	9	180	pauperatum <i>Ad.</i>

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104 9 180

104 9 180

104 9 180

Cyclostoma simulans Ad.*crenulosum Ad.**columna Wood.**C. quinque-fasciatum Ad.*

104 9 180

Sauliæ Sowb.

104 9 180

sericinum Ad.

104 9 180

maritimum Ad.

104 9 180

aurora Ad.

104 9 180

Tappanianum Ad.

104 9 180

Adamsi Pfe.

104 9 180

fecundum Ad.

104 9 180

var. distinctum Ad.

104 9 180

Griffithianum Ad.

104 9 180

mordax Ad.

104 9 180

muticum Ad.

104 9 180

armatum Ad.

104 9 180

papyraceum Ad.

104 9 180

var. abbreviatum Ad.

104 9 180

Duffianum Ad.

104 9 180

corrugatum Sowb.

104 9 180

jugosum Ad.

104 9 180

pallescens Ad.

104 9 180

subrugosum Sowb.

104 9 180

Jamaicense Chemn.

104 9 180

seminudum Ad.

104 9 180

varians Ad.

104 9 180

crassum Ad.

104 9 180

perpallidum Ad.

104 9 180

asperulum Sowb.

104 9 180

dubiosum Ad.

104 9 180

suturale Sowb.

105 9 181

Stoastoma Agassizianum Ad.

105 9 181

Philippianum Ad.

105 9 181

Gouldianum Ad.

105 9 181

Vilkinsoniæ Ad.

105 9 181

Tappanianum Ad.

105 9 181

Blandianum Ad.

105 9 181

Hollandianum Ad.

105 9 181

Anthonianum Ad.

105 9 181

Fadyenianum Ad.

105 9 181

Petitianum Ad.

105 9 181

Pfeifferianum Ad.

105 9 181

Cumingianum Ad.

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105	9	181	Stoastoma Chittyanum <i>Ad.</i>
105	9	181	<i>pisum</i> <i>Ad.</i>
105	9	181	<i>Lindsleyanum</i> <i>Ad.</i>
105	9	181	<i>Redfieldianum</i> <i>Ad.</i>
105	9	181	<i>Moricandianum</i> <i>Ad.</i>
105	9	181	<i>Jayanum</i> <i>Ad.</i>
105	9	181	<i>Leanum</i> <i>Ad.</i>
105	9	181	<i>Lucidella aureola</i> <i>Gray.</i>
105	9	181	<i>var. granulosa</i> <i>Ad.</i>
105	9	181	<i>Trochatella Tankervillei</i> <i>Gray.</i>
105	9	181	<i>pulchella</i> <i>Gray.</i>
105	9	181	<i>var. multicarinata</i> <i>Ad.</i>
105	9	181	<i>nobilis</i> <i>Ad.</i>
105	9	181	<i>Grayana</i> <i>Pfr.</i>
105	9	181	<i>Josephinae</i> <i>Ad.</i>
105	9	181	<i>var. pulchra</i> <i>Ad.</i>
105	9	181	<i>tenuis</i> <i>Ad.</i>
105	9	181	<i>Helicina palliata</i> <i>Ad.</i>
105	9	181	<i>var. labiosa</i> <i>Ad.</i>
105	9	181	<i>Brownii</i> <i>Gray.</i>
105	9	181	<i>consanguinea</i> <i>Ad.</i>
105	9	181	<i>var. soror</i> <i>Ad.</i>
105	9	181	<i>hirsuta</i> <i>Ad.</i>
105	9	181	<i>microstoma</i> <i>Ad.</i>
105	9	181	<i>Hollandi</i> <i>Ad.</i>
105	9	181	<i>pusilla</i> <i>Ad.</i>
105	9	181	<i>macilenta</i> <i>Ad.</i>
105	9	181	<i>maxima</i> <i>Soub.</i>
105	9	181	<i>var. citrina</i> <i>Ad.</i>
105	9	181	<i>nobilis</i> <i>Ad.</i>
105	9	181	<i>albolabris</i> <i>Ad.</i>
105	9	181	<i>citrinolabris</i> <i>Ad.</i>
105	9	181	<i>dubiosa</i> <i>Ad.</i>
105	9	181	<i>var. intermedia</i> <i>Ad.</i>
105	9	181	<i>solitaria</i> <i>Ad.</i>
			<i>H. Guildingiana</i> <i>Pfr.</i>
105	9	181	<i>affinis</i> <i>Ad.</i>
105	9	181	<i>megastoma</i> <i>Ad.</i>
105	9	181	<i>Gossei</i> <i>Pfr.</i>
105	9	181	<i>Adamsiana</i> <i>Pfr.</i>
105	9	181	<i>depressa</i> <i>Gray.</i>
			<i>H. Leana</i> <i>Ad.</i>
105	9	181	<i>var. valida</i> <i>Ad.</i>

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Page.	No.	Page.	
105	9	181	Helicina lineata <i>Ad.</i>
105	9	181	<i>neritella</i> <i>Lam.</i>
105	9	181	<i>var. angulata</i> <i>Ad.</i>
105	9	181	<i>ampliata</i> <i>Ad.</i>
105	9	181	<i>Jamaicensis</i> <i>Soub.</i>
105	9	181	<i>aurantia</i> <i>Gray.</i>
105	9	181	<i>costata</i> <i>Soub.</i>
106	9	182	Truncatella scalaris <i>Mich.</i>
			<i>T. Cumingii</i> <i>Ad.</i>
			<i>costata</i> <i>Pfr.</i>
106	9	182	<i>modesta</i> <i>Ad.</i>
106	9	182	<i>Adamsi</i> <i>Pfr.</i>
			<i>T. scalariformis</i> <i>Ad.</i>
106	9	182	<i>succinea</i> <i>Ad.</i>
106	9	182	Geomelania Greyana <i>Ad.</i>
106	9	182	<i>fortis</i> <i>Ad.</i>
106	9	182	<i>Jamaicensis</i> <i>Pfr.</i>
106	9	182	<i>magna</i> <i>Ad.</i>
106	9	182	<i>procera</i> <i>Ad.</i>
106	9	182	<i>gracilis</i> <i>Ad.</i>
106	9	182	<i>var. parva</i> <i>Ad.</i>
106	9	182	<i>typica</i> <i>Ad.</i>
106	9	182	<i>var. pygmæa</i> <i>Ad.</i>
106	9	182	<i>expansa</i> <i>Ad.</i>
106	9	182	<i>affinis</i> <i>Ad.</i>
106	9	182	<i>media</i> <i>Ad.</i>
106	9	182	<i>vicina</i> <i>Ad.</i>
106	9	182	<i>minor</i> <i>Ad.</i>
106	9	182	<i>Hilliana</i> <i>Ad.</i>
106	9	182	<i>exilis</i> <i>Ad.</i>
106	9	182	<i>pauperata</i> <i>Ad.</i>
106	9	182	<i>Beardsleana</i> <i>Ad.</i>
106	9	182	<i>pygmæa</i> <i>Ad.</i>
106	9	182	<i>conica</i> <i>Ad.</i>
106	9	182	<i>pyramidata</i> <i>Ad.</i>
106	9	182	<i>costulosa</i> <i>Ad.</i>
106	9	182	<i>striosa</i> <i>Ad.</i>
106	9	182	<i>elegans</i> <i>Ad.</i>
106	9	182	Cylindrella gracilis <i>Wood.</i>
106	9	182	<i>elongata</i> <i>Chemn.</i>
			<i>C. Cumingii</i> <i>Ad.</i>
			<i>Chemnitziana</i> (<i>Helix</i>) <i>Per.</i>
106	9	182	<i>Agnesiæna</i> <i>Ad.</i>

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106	9	182	Cylindrella (var.) diminuta <i>Ad.</i>
106	9	182	alba <i>Ad.</i>
106	9	182	var. striatula <i>Ad.</i>
106	9	182	subula <i>Fer.</i>
106	9	182	alabastrina <i>Pfr.</i>
106	9	182	Humboldtiana (var. β) <i>Pfr.</i>
106	9	182	variegata (var. γ) <i>Pfr.</i>
106	9	182	seminuda <i>Ad.</i>
106	9	182	Robertsi <i>Ad.</i>
106	9	182	costulata <i>Ad.</i>
106	9	182	costulosa <i>Ad.</i>
106	9	182	Hydeana <i>Ad.</i>
			<i>Bulimus Gossei</i> <i>Pfr.</i>
106	9	182	Gossei <i>Pfr.</i>
106	9	182	Maugeri <i>Wood.</i>
106	9	182	var. nigrescens <i>Ad.</i>
106	9	182	solida <i>Ad.</i>
106	9	182	levis <i>Ad.</i>
106	9	182	tricolor <i>Ad.</i>
107	9	183	crassa <i>Ad.</i>
107	9	183	unicincta <i>Ad.</i>
107	9	183	bicinota <i>Ad.</i>
107	9	183	concinna <i>Ad.</i>
107	9	183	sinuata <i>Ad.</i>
107	9	183	rufilabris <i>Ad.</i>
107	9	183	citrina <i>Ad.</i>
107	9	183	fusiformis <i>Ad.</i>
107	9	183	albida <i>Ad.</i>
107	9	183	valida <i>Ad.</i>
107	9	183	unicolor <i>Ad.</i>
107	9	183	striatula <i>Ad.</i>
107	9	183	striata <i>Ad.</i>
107	9	183	corpulenta <i>Ad.</i>
107	9	183	fusca <i>Ad.</i>
107	9	183	conica <i>Ad.</i>
107	9	183	tesselata <i>Ad.</i>
107	9	183	cinerea <i>Ad.</i>
107	9	183	gracilis <i>Ad.</i>
107	9	183	integra <i>Ad.</i>
107	9	183	Hollandi <i>Ad.</i>
107	9	183	var. Augustæ <i>Ad.</i>
107	9	183	procera <i>Ad.</i>
107	9	183	montana <i>Ad.</i>

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Page.	No.	Page.	
107	9	183	Cylindrella rosea Pfr.
107	9	183	var. magna Ad.
107	9	183	major Ad.
107	9	183	fortis Ad.
107	9	183	ambigua Ad.
107	9	183	cylindrus Chemn.
107	9	183	rubella Ad.
107	9	183	zonata Ad.
107	9	183	aspera Ad.
107	9	183	brevis Pfr.
107	9	183	var. obesa Ad.
107	9	183	columna Ad.
107	9	183	intermedia Ad.
107	9	183	Gravesii Ad.
107	9	183	lata Ad.
107	9	183	var. produota Ad.
107	9	183	nobilior Ad.
107	9	183	Baquilana Chitty.
107	9	183	carnea Ad.
107	9	183	var. cerina Ad.
107	9	183	sanguinea Pfr.
107	9	183	pupæformis Ad.
107	9	183	humilis Ad.
107	9	183	inornata Ad.
107	9	183	simplex Ad.
107	9	183	pusilla Ad.
107	9	183	rubra Ad.
107	9	183	elatior Ad.
107	9	183	princeps Ad.
107	9	183	Dunkeri Pfr.
107	9	183	similis Ad.
107	9	183	tenella Ad.
107	9	183	tenera Ad.
107	9	183	Achatina solitaria Ad.
107	9	183	ligata Ad.
107	9	183	Jamaicensis Pfr.
107	9	183	procera Ad.
107	9	183	Griffithii Ad.
107	9	183	Philippiana Pfr.
107	9	183	elegans Ad.
107	9	183	venusta Ad.
107	9	183	leucozonias Walch.
107	9	183	Dominicensis Gmel.

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Page.	No.	Page.	
109	9	185	Helix Swainsoniana Ad.
109	9	185	tridentina Fer.
109	9	185	Bronni Pfr.
109	9	185	valida Ad.
109	9	185	consanguinea Ad.
109	9	185	var. imperforata Ad.
109	9	185	carinata Ad.
109	9	185	ploturata Ad.
109	9	185	invalida Ad.
109	9	185	sinuata Mull.
109	9	185	var. propenuda Ad.
109	9	185	oandescens Ad.
109	9	185	strangulata Ad.
109	9	185	anomala Pfr.
109	9	185	var. pallescens Ad.
109	9	185	convexa Ad.
109	9	185	Bainbridgei Pfr.
109	9	185	var. pretiosa Ad.
109	9	185	Spengleriana Pfr.
109	9	185	Redfieldiana Ad.
109	9	185	aspera Fer.
109	9	185	Jamaicensis Chemn.
			<i>H. pulla</i> Gmel.
109	9	185	angustata Fer.
109	9	185	Cubensis (var. 3) Pfr.
109	9	185	tunicata Ad.
109	9	185	Buddiana Ad.
109	9	185	MacMurrayi Ad.
109	9	185	munda Ad.
109	9	185	columellata Ad.
109	9	185	tenerrima Ad.
109	9	185	graminicola Ad.
109	9	185	nemoraloides Ad.
109	9	185	pulchrior Ad.
109	9	185	Gossei Pfr.
109	9	185	Blandiana Ad.
109	9	185	subconica Ad.
109	9	185	fuscocincta Ad.
109	9	185	virginea Ad.
109	9	185	Jacobensis Ad.
	9	185	fuscula Ad.
	9	185	immunda Ad.

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Page.	No.	Page.	
109	9	185	Helix rufula Pfr.
109	9	185	ptychodes Pfr.
109	9	185	alveus Ad.
109	9	185	perdepressa Ad.
109	9	185	brevior Ad.
			<i>H. depressa</i> Ad.
109	9	185	sincera Ad.
109	9	185	diminuta Ad.
109	9	185	apex Ad.
109	9	185	inconspicua Ad.
109	9	185	peraffinis Ad.
109	9	185	Boothiana Pfr.
			<i>H. pellucida</i> Ad.
109	9	185	spretia Ad.
109	9	185	var. errans.
109	9	185	turbiniformis Pfr.
			<i>H. subpyramidalis</i> Ad.
109	9	185	Anthoniana Ad.
110	9	186	angustispira Ad.
110	9	186	brevis Ad.
110	9	186	Hollandi Ad.
110	9	186	similis Ad.
110	9	186	arboreoides Ad.
			<i>H. Haldemaniana</i> Pfr.
110	9	186	ambigua Ad.
110	9	186	osculans Ad.
110	9	186	var. delaminata Ad.
110	9	186	lamellifera Ad.
110	9	186	pila Ad.
110	9	186	Foremaniana Ad.
110	9	186	Cookiana Gmel.
110	9	186	epistylloides Fer.
110	9	186	alligans Ad.
110	9	186	epistylum Mull.
110	9	186	var. minor Ad.
110	9	186	delaminata Ad.
110	9	186	torrefacta Ad.
110	9	186	connectens Ad.
110	9	186	epistylum Ad.
110	9	186	simulans Ad.
110	9	186	dioscoricola Ad.
110	9	186	paludosa Pfr.

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Page.	No.	Page.	
110	9	186	Proserpina discoides <i>Ad.</i>
110	9	186	opalina (<i>Helix</i>) <i>Ad.</i>
110	9	186	nitida <i>Sowb.</i>
110	9	186	var. planulata <i>Ad.</i>
110	9	186	pulchra <i>Ad.</i>
110	9	186	bidentata <i>Ad.</i>
110	9	186	pisum <i>Ad.</i>
110	9	186	Melampus coniformis <i>Brug.</i>
110	9	186	flavus <i>Gmel.</i>
			<i>Auricula monile</i> <i>Lam.</i>
110	9	186	pusillus <i>Gmel.</i>
			<i>Auricula nitens</i> <i>Lam.</i>
110	9	186	coronatus <i>Ad.</i>
110	9	186	cingulatus <i>Pfr.</i>
110	9	186	Pedipes quadridens <i>Pfr.</i>
110	9	186	ovalis <i>Ad.</i>
111	9	187	Adams. —Catalogue of the Fresh Water Shells which inhabit Jamaica. (From same.)
111	9	187	Neritina punctulata <i>Lam.</i>
111	9	187	Jamaicensis <i>Ad.</i>
111	9	187	tenebriosa <i>Ad.</i>
111	9	187	Melanopsis lineolata <i>Gray.</i>
111	9	187	Melania spinifera <i>Ad.</i>
111	9	187	Valvata pygmæa <i>Ad.</i>
111	9	187	inconspicua <i>Ad.</i>
111	9	187	Paludina rivularis <i>Ad.</i>
111	9	187	Jamaicensis <i>Ad.</i>
111	9	187	Ampullaria fasciata? <i>Lam.</i>
111	9	187	Planorbis MacNabianus <i>Ad.</i>
111	9	187	Redfieldi <i>Ad.</i>
111	9	187	Haldemani <i>Ad.</i>
111	9	187	dentiferus <i>Ad.</i>
111	9	187	var. edentatus <i>Ad.</i>
111	9	187	pallidus <i>Ad.</i>
111	9	187	decepiens <i>Ad.</i>
111	9	187	affinis <i>Ad.</i>
111	9	187	humilis <i>Ad.</i>
111	9	187	Ancylus obscurus? <i>Hald.</i>
111	9	187	obliquus <i>Ad.</i>
111	9	187	Physa Sowerbyana? <i>D'Orb.</i>
111	9	187	Jamaicensis <i>Ad.</i>

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111	9	187	<i>Limnæa umbilicata</i> Ad.
111	9	187	<i>Cycolas pygmæa</i> Ad.
111	9	187	<i>Ventleyi</i> Ad.

Page.

224

Redfield.—Descriptions of new species of *Marginella* and *Cypræa*: by JOHN H. REDFIELD.

224

Marginella vexillum Redf. Cape Palmas.

225

amabilis Redf. Yucatan.*M. carnea* Sowb. not Storer.

226

antiqua Redf. Va. fossil.

226

Gabiensis Redf. = *M. amygdala* Kien.

226

vermiculata Redf. = *M. quinqueplicata* Lam.

227

Hainesii Pet. = *M. quinqueplicata* Lam.

227

pudica Gaskoin = *M. chrysomelina*.

227

Delessertiana Recl. = *albolineata* D'Orb.?

227

Cypræa reticulata.

227

histrion.

229

Adams.—Catalogue of Shells collected at Panama, with notes, &c.: by C. B. ADAMS.

[Also published separately, 1852. I have given the pages of the Annals as well as of the separate work.—W. G. B.]

Family Cypræidæ.

ANN. P. S.

Pa. Pa.

253	29	<i>Ovula avena</i> Sowb.
254	30	<i>emarginata</i> Sowb.
255	31	<i>neglecta</i> Ad.
255	31	<i>variabilis</i> Ad.
256	32	—.
256	32	<i>Cypræa arabicula</i> Lam.
257	33	<i>cervinetta</i> Kien.
		<i>C. exanthema</i> (var.)
		Gray.
		<i>cervus</i> (var.) Rve.
259	35	<i>punctulata</i> Gray.
259	35	<i>pustulata</i> Lam.
		<i>Trivia pustulata</i> Gray.

ANN. P. S.

Pa. Pa.

261	37	<i>Cypræa radians</i> Lam.
		<i>Trivia radians</i> Gray.
		<i>C. oniscus</i> Wood.
262	38	<i>rubescens</i> Gray.
262	38	<i>sanguinea</i> Gray
		(<i>Trivia</i>).
263	39	<i>Erato scabriuscula</i> Gr.
		<i>Marginella cypræola</i>
		Sowb.
		<i>Marginella granum</i> Kien.
264	40	<i>Marginella minor</i> Ad.
264	40	<i>sapotilla</i> Hinds.

[Annals of New York Lyceum and Panama Shells.]

Family Mitridæ.

Ann.	P. S.		Ann.	P. S.	
Pa.	Pa.		Pa.	Pa.	
266	42	Mitra funiculata Rve.	267	43	Mitra nucleola Lam.
266	42	lens Wood (<i>Voluta</i>).	268	44	solitaria Ad.
		<i>Tiara foraminata</i> Sw.	268	44	tristis Brod.
		<i>Mitra Dupontii</i> Kien.			
Family Purpuridæ.					
269	45	Terebra elata Hinds.	283	59	Nassa canescens Ad.
269	45	larvæformis Hinds.	283	59	collaria Ad.
270	46	robusta Hinds.	284	60	corpulenta Ad.
270	46	specillata Hinds.	285	61	gemmulosa Ad.
271	47	tuberculosa Hinds.	285	61	glauca Ad.
271	48	varicosa Hinds.	286	62	luteostoma Ad.
271	48	—?			<i>N. xanthostoma</i> Gray.
271	48	—?			<i>Buccinum luteostoma</i>
271	48	—?			Br. & Sowb.
271	48	—?	287	63	nodifera Powis.
271	48	—?	287	63	pagodus (<i>Triton</i>) Rve.
272	48	Oliva angulata Lam.			<i>Buccinum decussatum</i>
		<i>Voluta oliva</i> (var. ♂)			Kien.
		Gmel.	288	64	Panamensis Ad.
		<i>incrassata</i> Dillw.	288	64	proxima Ad.
273	49	araneosa Lam.	289	65	scabriuscula Powis?
		<i>O. reticularis</i> Rve.	289	65	striata Ad.
274	50	inconspicua Ad.	290	66	versicolor Ad.
275	51	pellucida Rve.	291	67	Wilsoni Ad.
275	51	porphyria Linn. (<i>Vol.</i>)	291	67	Buccinum crassum Hd.
		<i>O. Panamaensis</i> Montf.			<i>Phos crassus</i> Hinds.
277	53	semistriata Gray.	292	68	distortum Bligh.
278	54	testacea Lam.			<i>Polia distorta</i> Gray.
279	55	undatella Lam.			<i>Columbella triumphalis</i>
		<i>O. tenebrosa</i> Wood.	293	68	insigne Rve. [Duel.
280	56	venulata Lam. [Rve.			<i>B. mutabile</i> Val.
		<i>O. reticularis</i> (var.)	293	69	lugubre Ad.
		<i>Voluta ispidula</i>	294	70	pagodus Rve.
		(♂ var.) Born.	294	70	pristis Desh.
281	57	volutella Lam.			<i>B. serratum</i> Kien.
		<i>O. cærulea</i> Wood.	295	71	ringens Rve.
282	58	Planaxis planicostata	296	72	sanguinolentum Mke.
		Sowb.			<i>B. hæmastoma</i> Rve.
		<i>P. canaliculata</i> Duval.			<i>Polia hæmastoma</i> Gr.
		<i>Buccinum planaxis</i>			<i>Purpura sanguinolenta</i>
		Wood.			Duel.

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Ann.	P. S.		Ann.	P. S.	
Pa.	Pa.		Pa.	Pa.	
		<i>B. Janelii</i> Val.	306	82	<i>Columbella atramentaria</i> Sowb.
296	72	<i>Buccinum Stimpsonianum</i> Ad.	306	82	<i>bicanalifera</i> Sowb.
297	73	<i>Dolium ringens</i> Rve.	307	83	<i>Boivini</i> Kien.
		<i>D. dentatum</i> Barnes.	307	83	<i>conspicua</i> Ad.
		<i>personatum</i> Mke.	308	84	<i>costellata</i> Br. & Sowb.
		<i>Cassirangens</i> Swains.	309	85	<i>diminuta</i> Ad.
		<i>Buccinum ringens</i> Wd.	309	85	<i>dorsata</i> Sowb.
		<i>Malea latilabris</i> Val.	310	86	<i>fluctuata</i> Sowb.
		<i>crassilabris</i> Val.			<i>C. suturalis</i> Griff.
		<i>Dolium latilabre</i> Kien.	311	87	<i>fulva</i> Sowb.
		<i>plicosum</i> Mke.	311	87	<i>fuscata</i> Sowb.
		<i>crassilabre</i> Mke.			<i>C. meleagris</i> Kien.
298	74	<i>Monoceros brevidentatum</i> Sowb.	312	88	<i>gibberula</i> Sowb.
		<i>Buccinum brevidentatum</i> Wood.	313	89	<i>gracilis</i> Ad.
		<i>Purpura cornigera</i> Bl.	313	89	<i>guttata</i> Sowb.
		<i>ocellata</i> Kien.	315	91	<i>C. cribraria</i> Sowb.
		<i>maculata</i> Gmel.	315	91	<i>hæmastoma</i> Sowb.
299	75	<i>cingulatum</i> Lam.	316	92	<i>harpiformis</i> Sowb.
		<i>Buccinum cingulatum</i>	317	93	<i>C. citharula</i> Ducl.
		Wood.	317	93	<i>labiosa</i> Sowb.
		<i>pseudodon</i> Burr.			<i>lyrata</i> Sowb.
		<i>Turbinella cingulata</i>			<i>major</i> Sowb.
		Kien.	318	94	<i>C. gibbosa</i> Val.
300	76	<i>Purpura Carolensis</i>			<i>strombiformis</i> Kien.
300	76	<i>foveolata</i> Ad. [Rve.	318	94	<i>modesta</i> Gould.
301	77	<i>kiosculiformis</i> Ducl.			<i>Bucinum modestum</i>
302	78	— (sp. ined.)	318	94	<i>mæsta</i> Ad. [Powis.
302	78	<i>melo</i> Desh.	319	95	<i>nigricans</i> Sowb.
		<i>P. crassa</i> Blainv.	320	96	<i>parva</i> Sowb.
		<i>melones</i> Ducl.	320	96	<i>pulchrior</i> Ad.
303	79	<i>osculans</i> Ad.	321	97	<i>pygmæa</i> Sowb.
303	79	<i>teota</i> Rve.	321	97	<i>rugosa</i> Sowb.
		<i>P. angulifera</i> Ducl.			<i>C. Sowerbyi</i> Ducl.
		<i>callosa</i> Sowb.	322	98	<i>bicolor</i> Kien.
		<i>Buccinum tectum</i> Wd.			<i>strombiformis</i> Lam.
		<i>Cuma sulcata</i> Swains.			<i>Buccinum strombiforme</i> Wood.
		<i>Turbinella callosa</i>	323	99	<i>tesselata</i> Ad.
		<i>tectum</i> Rve. [Less.	323	99	<i>turrita</i> Sowb.
304	80	<i>undata</i> Lam.	324	100	<i>varia</i> Sowb.
		<i>P. hæmastoma</i> Mke.	325	101	— (sp. ined.) [Rve.
			325	101	<i>Ricnula carbonaria</i> ?

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ANN. P. S.			ANN. P. S.		
Pa.	Pa.		Pa.	Pa.	
325	101	<i>Riccinula jugosa</i> Ad.	327	103	<i>Cassia coarctata</i> Sowb.
326	102	<i>Reeviana</i> Ad. [Rve.			<i>Buccinum coarctatum</i>
		<i>Buccinum pulchrum</i>			Wood. [Rve.
326	102	<i>Cassia abbreviata</i> Bl.	328	104	<i>Oniscia tuberculosa</i>
		<i>C. lactea</i> Kien.			

Family **Strombidae.**

328	104	<i>Conus brunneus</i> Wood.	332	108	<i>Conus purpurascens</i>
329	105	<i>gladiator</i> Brod.			<i>Brod.</i>
329	105	<i>mahogani</i> Ree.	333	109	<i>regalitatis</i> Sowb.
330	106	<i>nux</i> Brod.	334	110	<i>regularis</i> Sowb.
330	106	<i>princeps</i> Linn.	334	110	<i>vittatus</i> Lam.
		<i>C. regius</i> Chemn.	335	111	<i>Strombus galea</i> Wood.
		(Conch. Cab. La Robe			<i>S. galeatus</i> Gray.
		Persienne Favanne.)	336	112	<i>gracillior</i> Sowb.
		<i>C. lineolatus</i> Val.	337	113	<i>granulatus</i> Swains.
			338	114	<i>Peruvianus</i> Swains.

Family **Muricidae.**

339	115	<i>Triton Chemnitzii</i> Ree.	346	122	<i>Murex radix</i> Schröt.
		<i>T. perforatus</i> Conr.			<i>M. melanomathos</i> Dill.
		<i>Cassidaria setosa</i> Hds.	347	123	<i>rectirostris</i> Sowb.
		<i>Triton nodosum</i> Mke.	348	124	<i>recurvirostris</i> Brod.
		<i>Argo-buccinum nodo-</i>	348	124	<i>regius</i> Swains.
		<i>sum</i> Chemn.			<i>M. tricolor</i> Val.
		<i>Murex argus</i> (var. <i>g.</i>	349	125	<i>salebrosus</i> King.
		<i>pars</i>) Gmel.			<i>M. vitulinus</i> Gray.
		<i>Fusus Wiegmanni</i> Ant.	350	126	<i>vibex</i> Brod.
340	116	<i>constrictus</i> Brod.	351	127	<i>vittatus</i> Brod.
		<i>T. decussatum</i> Val.	351	127	<i>Pyrula patula</i> Brod.
340	116	<i>fusoides</i> Ad.			<i>Cyrtulus patula</i> Hinds.
340	116	<i>gibbosus</i> Brod.	352	128	<i>Ficula ventricosa</i>
341	117	<i>lignarius</i> Brod.			<i>Chenu.</i>
342	118	<i>vestitus</i> Hinds.			<i>F. decussata</i> Ree.
342	118	<i>Ranella cœlata</i> Brod.			<i>Pyrula ventricosa</i> Sb.
		<i>R. semigranosa</i> Kien.			<i>Bulla decussata</i> Wood.
343	119	<i>nana</i> Brod.	353	129	<i>Fusus bellus</i> Ad.
344	120	<i>nitida</i> Brod.	353	129	<i>Fasciolaria granosa</i> Br.
344	120	<i>plicata</i> Ree.	354	130	<i>Turbinella cæstus</i> Br.
345	121	<i>Murex dubius</i> Sowb.	355	131	<i>castanea</i> Gray.
		<i>M. aculeatus</i> Wood.			<i>T. acuminata</i> Ree.
345	121	<i>erosus</i> Brod.	355	131	<i>cerata</i> Ree.

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ANN. P. S. Pa. Pa.		ANN. P. S. Pa. Pa.	
	<i>Murex ceratus</i> Wood.		<i>Clavatulula rigida</i>
356 132	<i>Turbinella rudis</i> Ree.		[Hinds.
356 132	<i>spadicea</i> Ree.	370 146	<i>Pleurotoma rudis</i> Sbg.
356 132	<i>Cancellaria affinis</i> Ad.	371 147	<i>rustica</i> Sowb.
357 133	<i>clavatulula</i> Sowb.		<i>P. thiarella</i> Kien.
358 134	<i>decussata</i> Sowb.	371 147	<i>striosa</i> Ad.
358 134	<i>goniostoma</i> Sowb.	372 148	<i>zonulata</i> Ree.
359 135	<i>mitriformis</i> Sowb.		<i>P. cincta</i> Sowb.
	<i>C. uniplicata</i> Sowb.	372 148	— (a).
359 135	<i>pulchra</i> Sowb.	372 148	— (b).
360 136	<i>pygmæa</i> Ad.	372 148	<i>Mangelia</i> — (c).
361 137	<i>solida</i> Sowb.	373 149	— (d).
361 137	<i>tesselata</i> Sowb.	373 149	— (e).
362 138	<i>Pleurotoma aterrima</i>	373 149	— (f).
362 138	<i>atrior</i> Ad. [Sowb.	373 149	<i>neglecta</i> Ad.
363 139	<i>bicanalifera</i> Sowb.	373 149	<i>sulcosa</i> ? Sowb.
363 139	<i>collaris</i> Sowb.		<i>Columbella sulcosa</i> Sb.
364 140	<i>concinna</i> Ad.	374 150	<i>Cerithium adustum</i> Kn.
364 140	<i>corrugata</i> Sowb.	374 150	<i>assimilatum</i> Ad.
	<i>P. turricula</i> Sowb.	375 151	<i>bimarginatum</i> Ad.
	<i>Sowerbyi</i> Ree.	376 152	<i>famelicum</i> Ad.
365 141	<i>discors</i> Sowb.	376 152	<i>gemmatum</i> .
365 141	<i>duplicata</i> Sowb.	377 153	<i>interruptum</i> .
366 142	<i>excentrica</i> ? Sowb.	377 153	— (sp. ind.)
366 142	<i>exigua</i> Ad.	378 154	<i>irroratum</i> Gould.
367 143	<i>gemmales</i> Ad.	378 154	<i>neglectum</i> Ad.
367 143	<i>grandimaculata</i> Ad.	379 155	<i>Pacificum</i> Sowb.
368 144	<i>incrassata</i> Sowb.		<i>C. Humboldti</i> Val.
	<i>P. Bottæ</i> Kien.	379 155	<i>pauperulum</i> Ad.
368 144	<i>nigerrima</i> Sowb.	380 156	<i>pulchrum</i> Ad.
	<i>P. cornuta</i> Sowb.	380 156	<i>Reevianum</i> Ad.
369 145	<i>obeliscus</i> Ree.	381 157	<i>validum</i> Ad. [Ad.
369 145	<i>olivaces</i> Sowb.	382 158	<i>Triphoris alternatus</i>
370 146	<i>pallida</i> Sowb.	383 159	<i>inconspicuus</i> Ad.
370 146	<i>rigida</i> Hinds.	383 159	<i>infrequens</i> Ad.

Family *Littorinidae*.

384 160	<i>Turritella Banksii</i> Ree.	386 162	<i>Cœcum monstrosum</i>
385 161	<i>Cœcum diminutum</i> Ad.	387 163	<i>parvum</i> Ad. [Ad.
385 161	<i>eburneum</i> Ad.	387 163	<i>pygmæum</i> Ad.
385 161	<i>firmatum</i> Ad.	388 164	<i>Chemnitzia aculeus</i>
386 162	<i>læve</i> Ad.	388 164	<i>acuminata</i> Ad. [Ad.
386 162	<i>laqueatum</i> Ad.	389 165	<i>affinis</i> Ad.

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Ann. P. S.		Ann. P. S.	
Pa. Pa.		Pa. Pa.	
389 165	Chemnitzia olathra-	397 173	Littorina? foveata Ad.
	tula Ad.	398 174	? megasoma Ad.
390 166	communis Ad.	398 174	? parvula Phil.
391 167	gracillior Ad.	399 175	pulchra Sowb.
391 167	major Ad.		<i>Turbo pulcher</i> Swains.
391 167	marginata Ad.	400 176	puncticulata Phil.
392 168	Panamensis Ad.	400 176	varia Sowb.
392 168	similis Ad.	401 177	Rissoa clandestina Ad.
393 169	striosa Ad.	401 177	firmata Ad.
393 169	turrita Ad.	402 178	fortis Ad.
394 170	Littorina? anglostoma	402 178	? inconspicua Ad.
394 170	aspera Phil. [Ad.	403 179	infrequens Ad.
395 171	atrata Ad.	403 179	Janus Ad.
396 172	conspersa Ad.	404 180	notabilis Ad.
396 172	? excavata Ad.	404 180	scalariformis Ad.
397 173	fasciata Gray.	405 181	—— (sp. ind.)

Family Trochidae.

405 181	Cingula? inconspicua	414 190	Trochus catenulatus
405 181	paupercula Ad. [Ad.		<i>Phil.</i>
406 182	? terebellum Ad.	415 191	coronulatus Ad.
406 182	? turrita Ad.	415 191	Leanus Ad.
407 183	Litiopa? saxicola Ad.	416 192	lima Phil.
407 183	Adeorbis? abjecta Ad.	416 192	lividus Phil.
408 184	Vitrinella concinna Ad.	417 193	Panamensis Phil.
408 184	exigua Ad.	417 193	pellis-serpentis Wd.
409 185	Janus Ad.		<i>Turbo pellis-serpentis</i>
410 186	minuta Ad.		<i>Val.</i>
410 186	modesta Ad.	418 194	reticulatus Wood.
410 186	Panamensis Ad.	419 195	Turbo Buschii Phil.
411 187	parva Ad.		<i>Trochus Buschii Phil.</i>
411 187	perparva Ad.		<i>inermis Kien.</i>
412 188	regularis Ad.	419 195	? phasianella Ad.
412 188	seminuda Ad.	420 196	rutilus Ad.
413 189	tricarinata Ad.	420 196	saxosus Wood.
413 189	valvatoides Ad.	421 197	Scalaria hexagona
414 190	Solarium (sp. ind. a.)	422 198	obtusa Sowb. [Sowb.
414 190	—— (sp. ind. b.)	422 198	—— (sp. ind. a.)
414 190	—— (sp. ind. c.)	422 198	—— (sp. ind. b.)
		422 198	—— (sp. ind. c.)

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Family **Eulimidae**.

ANN. P. S.

Pa. Pa.

422 198 **Eulima** *iota* Ad.423 199 *recta* Ad.

ANN. P. S.

Pa. Pa.

423 199 **Eulima** *solitaria* Ad.Family **Tornatellidae**.424 200 **Pyramidella** (sp. ind.) | 424 200 **Pyramidella** *conica* Ad.Family **Neritidae**.425 201 **Natica** *Chemnitzii* Ad.425 201 *lurida*? Phil.425 201 *otis* Br. & Sowb.426 202 **Salangonensis** Recl.?426 202 **Souleyetiana** Recl.?427 203 *virginea* Recl.?

427 203 ——— (sp. ind. a.)

427 203 ——— (sp. ind. b.)

428 204 ——— (sp. ind. c.)

428 204 **Nerita** *scabricosta*

Lam.

N. ornata Sowb.*Deshayesii* Recl.*multiungis* Mke.

429 205 ——— (sp. ind. a.)

430 206 **Neritina** *Guayaquil-**lensis* Sowb.430 206 *piota* Sowb.Family **Auriculidae**.431 207 **Pedipes** *angulata* Ad.432 208 *acuta* D'Orb.*Marinula* Recluziana432 208 *concinna* Ad. [Cum.433 209 *infrequens* Ad.433 209 *Panamensis* Ad.434 210 **Pedipes** *stagnalis* D'Or.*A. papillifera* Kien.435 211 **Tabogensis** Ad.436 212 *trilineata* Ad.

436 212 ——— (sp. ind.)

Family **Cyclostomidae**.437 213 **Truncatella** *Bairdiana*
Ad.437 213 **Truncatella**? *dubiosa*
Ad.Family **Bullidae**.438 214 **Bulla** (*Tornatina*) *in-*
frequens Ad.439 215 (*Cylichna*) *luticola*
Ad.439 215 **Bulla** *punctulata* Sowb.
B. punctata Ad.

439 215 ——— (sp. ind.)

Family **Vermetidae**.440 216 **Vermetus** *glomera-*
tus? Rousseau.*Serpula* *glomerata*

(var. b., alt. exol.)

Lam.

V. centriquadrus Val.?440 216 **Vermetus** *Panamensis*
Rousseau.

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Family **Haliotidæ.**

ANN. P. S.

Pa. Pa.

440 216 *Stomatella inflata* Ad.

ANN. P. S.

Pa. Pa.

Family **Calyptræidæ.**

- | | | | |
|---------|---------------------------------------|---------|--|
| 441 217 | <i>Hipponix</i> (sp. ind.) | 449 225 | <i>Crepidula cerithicola</i> |
| 441 217 | <i>barbata</i> ? Sowb. | | Ad. |
| 442 218 | <i>Panamensis</i> Ad. | 450 226 | (<i>Crepidatella</i>) <i>echinus</i> |
| | <i>H. mitrula</i> Sowb. | 450 226 | <i>excavata</i> Brod. [Brod. |
| 442 218 | <i>radiata</i> Sowb. | | <i>Calyptræa</i> (<i>Crep-</i> |
| 443 219 | <i>Calyptræa aberrans</i> Ad. | | <i>dula</i>) <i>excavata</i> Brod. |
| 443 219 | (<i>Syphopatella</i>) <i>as-</i> | 451 227 | <i>hepatica</i> ? Desh. |
| | <i>persa</i> Ad. | 452 228 | <i>incurva</i> Brod. |
| 444 220 | <i>cepacea</i> Brod. | | <i>Calyptræa</i> (<i>Crep-</i> |
| 444 220 | (<i>Syphopatella</i>) <i>conica</i> | | <i>dula</i>) <i>incurva</i> Brod. |
| 445 221 | <i>dentata</i> Mke. [Brod. | 453 229 | <i>Lessonii</i> Brod. |
| | <i>C. rugosa</i> Rve. | | <i>Calyptræa</i> (<i>Crep-</i> |
| 445 221 | (<i>Calypeopsis</i>) <i>hispida</i> | | <i>dula</i>) <i>Lessonii</i> Brod. |
| | Brod. | 453 229 | <i>squama</i> Brod. |
| 446 222 | (<i>Calypeopsis</i>) <i>imbri-</i> | | <i>Calyptræa</i> (<i>Crep-</i> |
| | <i>cata</i> Brod. | | <i>dula</i>) <i>squama</i> Brod. |
| 447 223 | (<i>Calypeopsis</i>) <i>macu-</i> | 454 230 | <i>unguiformis</i> Lam. |
| | <i>lata</i> Brod. | | <i>C. italica</i> Defr. |
| 447 223 | <i>planulata</i> Ad. [Brod. | | <i>plana</i> Say. |
| 447 223 | (<i>Calypeopsis</i>) <i>radiata</i> | | <i>calceolina</i> Desh. |
| 448 224 | (<i>Syphopatella</i>) <i>re-</i> | | <i>dilatata</i> D'Orb. |
| | <i>gularis</i> Ad. | | <i>Patella crepidula</i> Lin. |
| 449 225 | <i>umbrella</i> Desh. | 458 234 | <i>nivea</i> Ad. |
| | <i>C. rudis</i> Brod. | 458 234 | <i>osculans</i> Ad. |
| 449 225 | <i>unguis</i> ? | 459 235 | <i>rostrata</i> Ad. |

Family **Fissurellidæ.**

- | | | | |
|---------|------------------------------|---------|--------------------------------|
| 459 235 | <i>Fissurella æqualis</i> | 463 239 | <i>Siphonaria costata</i> St. |
| 460 236 | <i>alta</i> Ad. [Sowb. | 463 239 | <i>gigas</i> Sowb. |
| 460 236 | <i>macrotrema</i> Sowb. | 464 240 | <i>maura</i> Sowb. |
| 461 237 | <i>microtrema</i> Sowb. | 464 240 | <i>pica</i> ? Sowb. |
| 461 237 | <i>mus</i> Ree. | 465 241 | <i>Lottia patina</i> ? Rathke. |
| 461 237 | <i>nigropunctata</i> Sowb. | | <i>Acanza patina</i> Rath. |
| 462 238 | <i>ostrina</i> Ree. | 465 241 | — (sp. ind. a.) |
| 462 238 | <i>virescens</i> Sowb. | 465 241 | — (sp. ind. b.) |
| 463 239 | <i>Siphonaria character-</i> | 465 241 | — (sp. ind. c.) |
| | <i>istica</i> Ree. | | |

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Family **Patellidæ.**

Ann. P. S.			Ann. P. S.		
Pa.	Pa.		Pa.	Pa.	
465	241	Patella ? (sp. ind. a.)	466	242	Chiton luridus ? Sowb.
466	242	Chiton clathratus Rve.	467	243	pulchellus Gray.
466	242	dispar Sowb.	467	243	Stokesii Brod.

Family **Ostræidæ.**

468	244	Anomia lampe Gray.	469	245	Ostrea — (sp. ind. b.)
469	245	tenuis Ad.	470	246	— (sp. ind. c.)
469	245	— (sp. ind. a.)	470	246	— (sp. ind. d.)
469	245	Ostrea — (sp. ind. a.)	470	246	— (sp. ind. e.)

Family **Pectenidæ.**

471	247	Spondylus Lamarckii			Pecten ventricosus in
		<i>Chenu.</i>			errata.
471	247	— (sp. ind. a.)	472	248	Tumbexensis D'Orb.
471	247	Pecten inca D'Orb.			<i>P. aspersus</i> Sowb.
		<i>P. tumidus</i> Sowb.	472	248	Lima angulata Sowb.
		<i>ventricosus</i> Sowb.	473	249	Pacifica D'Orb.
					<i>L. arcuata</i> Sowb.

Family **Aviculidæ.**

473	249	Avicula margaritifera ?	474	250	Perna — (sp. ind. a.)
474	250	sterna Gould.	474	250	— (sp. ind. b.)

Family **Mytilidæ.**

474	250	Pinna maura Sowb.	476	252	Modiola — (sp.
475	251	tuberculosa Sowb.			ind. a.)
475	251	Mytilus — (sp. ind. a.)	476	252	— (sp. ind. b.)
475	251	Lithodomus — (sp.	476	252	— (sp. ind. c.)
		ind. a.)	476	252	— (sp. ind. d.)
475	251	Modiolasemifusca ? Lk.	476	252	— (sp. ind. e.)
		<i>Mytilus Guiaënsis</i> Küst.			

Family **Chamidæ.**

477	253	Chama Buddiana Ad.	478	254	Chama echinata Brod.
477	253	corrugata ? Brod.			

Family **Arcidæ.**

478	254	Nucula Elenensis Sowb.	479	255	Nucula polita Sb. [Sb.
479	255	exigua Sowb.	480	256	Pectunculus assimilis

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Ann. P. S.	Pa.	Pa.	Ann. P. S.	Pa.	Pa.
481	257	Pectunculus maculatus <i>Brod.</i>	484	260	Arca (Byssarca) pholidiformis <i>Ad.</i>
481	257	Arca alternata <i>Rve.</i> <i>Byssarca alternata</i> <i>Swb.</i>	485	261	Reeveana <i>D'Orb.</i> <i>A. Helblingii</i> <i>Rve.</i>
481	257	aviculoides? <i>Sby.</i> <i>A. auriculata</i> <i>Sowb.</i>	485	261	reversa <i>Sowb.</i> <i>A. hemicardium</i> <i>Koch.</i>
482	258	emarginata <i>Sowb.</i>	485	261	similis <i>Ad.</i>
482	258	gradata <i>Brod. & Sby.</i>	486	262	solida <i>Sby.</i> [<i>Sowb.</i> <i>Byssarca solida</i>
483	259	grandis <i>Brod. & Sby.</i>	486	262	(Byssarca) Tabogensis <i>Ad.</i>
483	259	mutabilis <i>Sby.</i> [<i>Sowb.</i> <i>Byssarca mutabilis</i>	487	263	tuberculosa <i>Sowb.</i>
			488	264	—— (sp. ind. a.)

Family **Cardiidae.**

488	264	Cardita affinis <i>Sowb.</i> <i>C. nodulosa</i> <i>Val.?</i>	491	267	Cardium obovale <i>Br.</i> <i>g</i> <i>Sowb.</i>
489	265	laticosta <i>Sb.</i> <i>C. arcella</i> <i>Val.</i>	491	267	planicostatum <i>Sowb.</i>
489	265	radita <i>Sowb.</i>	491	267	procerum <i>Sowb.</i>
490	266	Cardium graniferum <i>Brod. & Sowb.</i>	492	268	senticosum <i>Sowb.</i> <i>C. rastrum</i> <i>Rve.</i>

Family **Veneridae.**

493	269	Venus amathusia <i>Phil.</i>	496	272	Cytherea aurantiaca <i>Sowb.</i> <i>C. aurantia</i> <i>Hanley.</i>
493	269	discors <i>Sowb.</i>	496	272	consanguinea <i>Ad.</i>
493	269	gnidia <i>Brod. et Sowb.</i>	497	273	radiata <i>Sowb.</i>
494	270	multicostata <i>Sowb.</i> <i>V. Thouarsi</i> <i>Val.</i>	497	273	squalida <i>Sowb.</i> <i>C. biradiata</i> <i>Gray.</i>
494	270	pectunculoides <i>Val.</i>	498	274	Artemis Dunkeri <i>Rve.</i> <i>Cytherea Dunkeri</i> <i>Ph.</i>
495	271	subrugosa <i>Sowb.</i> <i>Cytherea subsulcata?</i> <i>Mke.</i>	498	274	Artemis Pacifica <i>Tros.</i>
495	271	—— (sp. ind. a.)	499	275	saccata <i>Gould.</i>
495	271	—— (sp. ind. b.)	499	275	Gouldia Pacifica <i>Ad.</i>
496	272	Cytherea affinis <i>Sowb.</i>	499	275	Cyrena maritima <i>Ad.</i>

Family **Tellenidae.**

500	276	Lucina tellinoides <i>Rve.</i>	501	277	Donax gracilis <i>Hanl.</i>
500	276	Capsa altior <i>Sowb.</i>	502	278	navicula <i>Hanl.</i>
501	277	Donax assimilis <i>Hanl.</i>	502	278	rostratus <i>Ad.</i>

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ANN. P. S.		ANN. P. S.	
Pa. Pa.		Pa. Pa.	
503 279	Tellina aurora <i>Hanl.</i>	507 283	Tellina puella <i>Ad.</i>
503 279	cognata <i>Ad.</i>	507 283	rubescens <i>Hanl.</i>
504 280	Columbiensis <i>Hanl.</i>	508 284	siliqua <i>Ad.</i>
504 280	concinna <i>Ad.</i>	508 284	simulans <i>Ad.</i>
505 281	crystallina <i>Chemn.</i>		<i>T. punicea</i> part <i>Hanl.</i>
505 281	Cumingii <i>Hanl.</i>	509 285	sincera <i>Hanl.</i>
506 282	Dombel <i>Hanl.</i>	509 285	vicina <i>Ad.</i>
506 282	felix <i>Hanl.</i>	510 286	— (sp. ind. a.)
506 282	laceridens <i>Hanl.</i>	510 286	— (sp. ind. b.)
507 283	prora <i>Hanl.</i>	510 286	— (sp. ind. c.)

Family **Petricolidæ.**

510 286	Petricola cognata <i>Ad.</i>	511 287	Saxicava tenuis ? <i>Sowb.</i>
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Family **Mactridæ.**

511 287	Cumingia coarctata <i>Sb.</i>	515 291	Amphidesma tor-
512 288	trigonalis <i>Sowb.</i>		tuosum <i>Ad.</i>
512 288	— (sp. ind. a.)	516 292	ventricosum <i>Ad.</i>
512 288	— (sp. ind. b.)	516 292	Crassatella gibbosa <i>Sb.</i>
512 288	— (sp. ind. c.)	517 293	Mulinia donaciformis
512 288	— (sp. ind. d.)	517 293	ventricosa <i>Gld.</i> [<i>Hanl.</i>
512 288	Amphidesma bicolor		<i>Lutraria ventricosa</i>
513 289	ellipticum <i>Sowb.</i> ? [<i>Ad.</i>		<i>Gould.</i>
513 289	proximum <i>Ad.</i>	517 293	Lutraria elegans <i>Sby.</i>
514 290	pulchrum <i>Sowb.</i>		<i>Mactra elegans</i> <i>Sowb.</i>
515 291	striosum <i>Ad.</i>	518 294	Mactra velata <i>Phil.</i>

Family **Corbulidæ.**

518 294	Anatina alta <i>Ad.</i>	522 298	Corbula obesa <i>Hinds.</i>
519 295	Pandora cornuta <i>Ad.</i>	522 298	ovulata <i>Sowb.</i>
519 295	Potamomya æqualis	523 299	rubra <i>Ad.</i>
520 296	inflata <i>Ad.</i> [<i>Ad.</i>	523 299	tenuis <i>Ad.</i>
520 296	trigonalis <i>Ad.</i>	524 300	— (sp. ind. a.)
521 297	Corbula bicarinata <i>Sb.</i>	524 300	— (sp. ind. b.)
521 297	biradiata <i>Sowb.</i>		

Family **Solenidæ.**

524 300	Solecurtus affinis <i>Ad.</i>	524 300	Solen rudis <i>Ad.</i>
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Family **Pholadidae.**

ANN. P. S.			ANN. P. S.		
Pa.	Pa.		Pa.	Pa.	
525	301	Pholas crucigera Sowb.			<i>Penitella xylophaga</i> ?
526	302	tubifera Sowb.			Val.
526	302	xylophaga Val.	526	302	Pholas — (sp. ind. a.)
			526	302	— (sp. ind. b.)

CLASS **BRACHIOPODA.**527 303 **Orbicula Cumingii** Brod.

SYNOPSIS OF NEW SPECIES.

528	304	Ovula neglecta Ad.	532	308	Pleurotoma atrior Ad.
528	304	variabilis Ad.	532	308	concinna Ad.
528	304	Marginella minor Ad.	532	308	exigua Ad.
528	304	Mitra solitaria Ad.	532	308	gemmulosa Ad.
528	304	Oliva inconspicua Ad.	532	308	grandimaculata Ad.
528	304	Nassa canescens Ad.	533	309	striosa Ad.
529	305	collaria Ad.	533	309	Mangelia neglecta Ad.
529	305	corpulenta Ad.	533	309	Cerithium assimilatatum
529	305	gemmulosa Ad.			[Ad.]
529	305	glauca Ad.	533	309	bimarginatum Ad.
529	305	Panamensis Ad.	533	309	famelicum Ad.
529	305	proxima Ad.	533	309	neglectum Ad.
529	305	striata Ad.	533	309	pauperculum Ad.
529	305	versicolor Ad.	534	310	pulchrum Ad.
530	306	Wilsoni Ad.	534	310	Reevianum Ad.
530	306	Buccinum lugubre Ad.	534	310	validum Ad. [Ad.]
530	306	Stimpsonianum Ad.	534	310	Triphoris alternatus
530	306	Purpura foveolata Ad.	534	310	inconspicuus Ad.
530	306	osculans Ad. [Ad.]	534	310	infrequens Ad.
530	306	Columbella conspicua	534	310	Cœcum diminutum Ad.
530	306	diminuta Ad.	535	311	eburneum Ad.
531	307	gracilis Ad.	535	311	firmitum Ad.
531	307	mœsta Ad.	535	311	læve Ad.
531	307	pulchrior Ad.	535	311	laqueatum Ad.
531	307	tesselata Ad.	535	311	monstrosum Ad.
531	307	Ricinula jugosa Ad.	535	311	parvum Ad.
531	307	Triton fusoides Ad.	535	311	pygmæum Ad.
531	307	Fusus bellus Ad.	535	311	Chemnitzia aculeus Ad.
532	308	Cancellaria affinis Ad.	535	311	acuminata Ad.
532	308	pygmæa Ad.	535	311	affinis Ad.

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ANN. P. S.		ANN. P. S.	
Pa.	Pa.	Pa.	Pa.
535	311	Chemnitzia clathratula	541 317 Turbo? phasaniella Ad.
536	312	communis Ad. [Ad.	541 317 rutilus Ad.
536	312	gracilior Ad.	541 317 Eulima iota Ad.
536	312	major Ad.	541 317 recta Ad.
536	312	marginata Ad.	542 318 solitaria Ad.
536	312	Panamensis Ad.	542 318 Pyramidella conica Ad.
536	312	similis Ad.	542 318 Pedipes angulata Ad.
536	312	striosa Ad.	542 318 Auricula concinna Ad.
536	312	turrita Ad.	542 318 infrequens Ad.
537	313	Littorina? anglostoma	542 318 Panamensis Ad.
537	313	atrata Ad. [Ad.	542 318 Tabogensis Ad.
537	313	dubiosa Ad.	543 319 trilineata Ad.
537	313	? excavata Ad.	543 319 Truncatella Bairdiana
537	313	? foveata Ad.	543 319 ? dubiosa Ad. [Ad.
537	313	? megasoma Ad.	543 319 Bulla infrequens Ad.
537	313	Rissoa clandestina Ad.	543 319 luticola Ad.
537	313	firmata Ad.	543 319 Stomatella inflata Ad.
538	314	fortis Ad.	543 319 Calyptraea aberrans
538	314	? inconspicua Ad.	Ad.
538	314	infrequens Ad.	543 319 (Syphopatella) as-
538	314	Janus Ad.	persa Ad.
538	314	notabilis Ad.	544 320 planulata Ad.
538	314	scalariformis Ad.	544 320 (Syphopatella) re-
538	314	Cingula? inconspicua	gularis Ad.
539	315	paupercula Ad. [Ad.	544 320 Crepidula cerithicola
539	315	? terebellum Ad.	544 320 nivea Ad. [Ad.
539	315	turrita Ad.	544 320 osculans Ad.
539	315	Litiopa? saxicola Ad.	544 320 rostrata Ad.
539	315	Adeorbis? abjecta Ad.	544 320 Fissurella alta Ad.
539	315	Vitrinella concinna Ad.	544 320 Anomia tenuis Ad.
539	315	exigua Ad.	544 320 Chama Buddiana Ad.
539	315	Janus Ad.	545 321 Arcapholadiformis Ad.
540	316	minuta Ad.	545 321 similis Ad.
540	316	modesta Ad.	545 321 Tabogensis Ad.
540	316	Panamensis Ad.	545 321 Cytherea consan-
540	316	parva Ad.	guinea Ad.
540	316	perparva Ad.	545 321 Gouldia Pacifica Ad.
540	316	regularis Ad.	545 321 Cyrena maritima Ad.
540	316	seminuda Ad.	545 321 Donax rostratus Ad.
540	316	tricarinata Ad.	545 321 Tellina cognata Ad.
541	317	valvatoides Ad.	546 322 concinna Ad.
541	317	Trochus coronulatus	546 322 puella Ad.
541	317	Leanus Ad. [Ad.	546 322 siliqua Ad.

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Page.		Page.	
74	Macroceramus microdon.	74	Cyclostoma Newcombi-
74	Cylindrella pallida.		anum.
74	Cyclostoma Antillarum.	74	Helicina subfusca.
		74	foveata.

75 **Bland.**—On the absorption of parts of the internal structure of their Shells by the animals of Stoastoma, Lucidella, Trochatella, Helicina, and Proserpina : by T. BLAND.

[A list of the species examined is given.—W. G. B.]

76	Helicina maxima Sowb.	76	Stoastoma pisum Ad.
76	albolabris Ad.	76	Proserpina pulchra Ad.
76	palliata Ad.	76	nitida Sowb.
76	Hollandi Ad.	76	pisum Ad.
76	neritella Lam.	76	globulosa D'Orb.
76	Lucidella aureola Gray.	76	depressa D'Orb.
76	Trochatella Tankervillei	76	bidentata D'Orb.
76	pulchella Gray. [Gray.]		

77 **Bland.**—On *Proserpina opalina* C. B. Ad., and *Helix Proserpinula* Pfr. : by T. BLAND.

78	Helix infortunata Bland.		<i>H. margarita</i> Pfr.
	<i>H. hyalina</i> Ad.		<i>Odontostoma opalinum</i> Pfr.
	<i>opalina</i> Ad.		<i>Proserpina opalina</i> Pfr.

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Pa. Pl. Fig.

131 **J. H. Redfield.**—(Vide p. 240.)131 i 7 **Cyclostoma inornatum** Redf. Guadalupe.

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Page.

142 **Newcomb.**—Descriptions of new species of *Achatinella* : by W. NEWCOMB, M. D.

142	Achatinella zebra Newc.	East Maui.
143	humilis Newc.	Kalai, Molokai.
143	petricola Newc.	Molokai.
144	fusoides Newc.	East Maui.
144	pusilla Newc.	Ranai.
145	Dwightii Newc.	Molokai.
146	Remyi Newc.	Ranai.
147	<i>Wheatleyi</i> Newc. = <i>A. vidua</i> Pfr.	
147	<i>oviformis</i> Newc. = <i>A. Sowerbyana</i> Pfr.	

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Pa. Pl. Fig.

- 147 **Bland.**—Notes on—
 147 Certain Terrestrial Mollusks which inhabit the West Indies: by T. BLAND.
 147 On the occurrence of *Pupa bicolor* Hutton, in the Island of St. Thomas.
 148 On the animal of *Proserpina*.
 150 On the structure of the axis of the shell of *Cylindrella*.
 150 v 19 *Cylindrella elatior*.
 150 *tenera* C. B. Ad.
 151 *tenella* C. B. Ad.
 151 v 16 *Agnesiana* C. B. Ad.
 151 v 17 *pruinosa* Mor.
 151 v 18 *strangulata* Poey.
 151 *Oviedoiana* D'Orb.
 151 *Proserpina opalina*.
 151 **Bland.**—Corrections and additional facts, especially as to the habitat of sundry species.
 151 *Helix Cassaquiensis* Newc. Demarara.
 152 *cognata* Fer. Jamaica.
 152 *conspersula* Pfr. Jamaica.
 152 *cornu-militare* L. Dominican Republic.
 152 *formosa* Fer. Antigua.
 152 *orbiculata* Fer. Sta. Lucia.
 152 *Pallasiana* Pfr. Bonin Island?
 153 *penicillata* Gld. = *H. Cubensis* Pfr.
 153 *Sagraiana* D'Orb. Mts. betw. Guajaibon
 153 *similaris* Fer. Barbadoes. [& Rangel.
 153 *Bulimus aulacostylus* Pfr. Sta. Lucia, Trinidad,
 B. lentiginosus Redf. [Demarara.
 154 *Cylindrella tricolor* Pfr. Jamaica.
 C. Maugeri (var.) *raphantina* Chitty.
 154 *Cyclostoma versicolor* Pfr. Jamaica.
 154 *rufilabrum* Beck. St. Croix.
 C. bilabre Mke.
 154 *Beaulanum* Petit. Guadaloupe.
 C. inornatum Redf.

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Pa. Pl. Fig.

- 155 **Chitty.**—Descriptions of two new species of *Cylindrella*,
from Jamaica, West Indies : by the Hon. E. CHITTY, &c.

155	v	1, 2	Cylindrella megahella Chitty.	Hanover Parish.
156	v	3, 4	amethystina Chitty.	Hanover Parish.
156			amethystina Chitty (var.) cerina .	
156			Baqueana Chitty.	Jamaica.
			<i>C. Adamsiana</i> Chitty.	
156			Leptinaria ———?	

- 157 **Haines.**—Descriptions of five new species of Terrestrial
Shells from Siam : by WILLIAM A. HAINES.

157	v	12-15	Cyclostoma Housei Haines.	Siam.
157	v	9-11	Myersii Haines.	Siam.
158	v	5-8	distortum Haines.	Siam.
158			Vitrina Siamensis Haines.	Siam.
158			Helix distincta Pfr.	Siam.

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Pa. Pl. Fig.

- 173 **Gulick.**—Descriptions of new species of *Achatinella*
from the Hawaiian Islands : by J. T. GULICK.

[The exact localities are given.—W. G. B.]

173	vi	1	Achatinella leucochila Gulick.
174	vi	2	resinula Gulick.
175	vi	3	lagna Gulick.
176	vi	4	lacrima Gulick.
177	vi	5	costulata Gulick.
178	vi	6	striatella Gulick.
179	vi	7	marginata Gulick.
180	vi	8	fuscula Gulick.
181	vi	9	fumida Gulick.
182	vi	10	gummea Gulick.
183	vi	11	fragilis Gulick.
184	vi	12	triticea Gulick.
185	vi	13	granifera Gulick.
186	vi	14	crystallina Gulick.
187	vi	15	saxatilis Gulick.
188	vi	16	exilis Gulick.
189	vi	17	petila Gulick.
190	vi	18	octogyrata Gulick.
191	vi	19	subula Gulick.
192	vi	20	turrita Gulick.

SECTION B.] NORTH AMERICAN CONCHOLOGY.

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Pa.	Pl.	Fig.	
193	vi	21	Achatinella terebralis <i>Gulick.</i>
194	vi	22	stiria <i>Gulick.</i>
194	vi	23	vitreola <i>Gulick.</i>
195	vi	24	parvula <i>Gulick.</i>
196	vi	25	platystyla <i>Gulick.</i>
197	vi	26	pexa <i>Gulick.</i>
198	vi	27	lactea <i>Gulick.</i>
199	vi	28 ^{a, b}	eburnea <i>Gulick.</i>
200	vii	29	ampulla <i>Gulick.</i>
201	vii	30	fasciata <i>Gulick.</i>
202	vii	31 ^{a, b}	Baileyana <i>Gulick.</i>
204	vii	32	pyramidalis <i>Gulick.</i>
205	vii	33	undosa <i>Gulick.</i>
207	vii	34 ^{a, c}	induta <i>Gulick.</i>
209	vii	35	lignaria <i>Gulick.</i>
210	vii	36	orocea <i>Gulick.</i>
211	vii	37	ustulata <i>Gulick.</i>
212	vii	38	talpina <i>Gulick.</i>
213	vii	39	plumbea <i>Gulick.</i>
214	vii	40	phacozona <i>Gulick.</i>
217	vii	41	plumata <i>Gulick.</i>
220	vii	42 ^{a, b}	diversa <i>Gulick.</i>
222	vii	43	varia <i>Gulick.</i>
			<i>A. vulpina</i> Rve. non Fer.
224	vii	44 ^{a, b}	versipellis <i>Gulick.</i>
225	vii	45	cucumis <i>Gulick.</i>
226	vii	46	trilineata <i>Gulick.</i>
227	vii	47	analoga <i>Gulick.</i>
229	vii	48	papyracea <i>Gulick.</i>
230	vii	49	juncosa <i>Gulick.</i>
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231	viii	50	delta <i>Gulick.</i>
232	viii	51	glauca <i>Gulick.</i>
233	viii	52	herbacea <i>Gulick.</i>
234	viii	53	cæsia <i>Gulick.</i>
234	viii	54	concidens <i>Gulick.</i>
235	viii	55	formosa <i>Gulick.</i>
236	viii	56	dimorpha <i>Gulick.</i>
237	viii	57	albescens <i>Gulick.</i>
238	viii	58	zonata <i>Gulick.</i>
239	viii	59	contracta <i>Gulick.</i>
240	viii	60	cognata <i>Gulick.</i>
241	viii	61	scitula <i>Gulick.</i>
241	viii	62	cervina <i>Gulick.</i>

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Pa.	Pl.	Fig.	Notes on—
243			<i>A. vulpina</i> Fer. <i>A. producta</i> Rve. <i>A. bilineata</i> Rve.
243			<i>A. vulpina</i> Rve. = <i>A. varia</i> Gulick.
243			<i>A. livida</i> Swains.
243			<i>A. Stewartii</i> Green.
243			<i>A. venulata</i> Newc. = <i>A. vulpina</i> .
243			<i>A. hybrida</i> Newc. = <i>A. vulpina</i> .
243			<i>A. venulata</i> (var. a) = <i>A. Stewartii</i> .
243			<i>A. Johnsonii</i> Newc. = <i>A. Byronii</i> .
243			<i>A. aplustre</i> Newc. = <i>A. Byronii</i> .
243			<i>A. pulcherrima</i> = <i>A. Byronii</i> .
243			<i>A. livida</i> Swains.
244			<i>A. lorata</i> Rve. = <i>pulcherrima</i> Swains, &c. &c.
245	viii	63	<i>Achatinella obliqua</i> Gulick.
246	viii	64	<i>oomorpha</i> Gulick.
247	viii	65	<i>spadicea</i> Gulick.
248	viii	66	<i>corrugata</i> Gulick.
249	viii	67	<i>rotunda</i> Gulick.
250	viii	68	<i>torrida</i> Gulick.
251	viii	69	<i>nympha</i> Gulick.
252	viii	70 ^{a, b}	<i>limbata</i> Gulick.
253	viii	71	<i>bulbosa</i> Gulick.
254	viii	72	<i>mahogani</i> Gulick.
254	viii	73	<i>virens</i> Gulick.
255			Gill.—Description of a new species of the genus <i>Cypræa</i> Linn.: by THEO. GILL.
256	ix	1-3	<i>Cypræa notata</i> Gill. East Indies.
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Page.			
303			Newcomb.—Synopsis of the genus <i>Achatinella</i> : by W. Newcomb, M. D.
305			<i>Achatinella textilis</i> Fer. <i>A. ventulus</i> Rve. <i>microstoma</i> Gould. <i>ventulus</i> Pfr.
306			<i>ventulus</i> Fer. <i>A. melanopoides</i> Pfr.
306			<i>vulpina</i> Fer. <i>A. Stewartii</i> Green.
			<i>A. diversa</i> Gulick. <i>varia</i> Gulick. <i>analogia</i> Gulick. <i>virens</i> Gulick. <i>livida</i> Pfr. not Swains.
307			<i>Achatinella gravida</i> Fer. <i>A. suffusa</i> Rve. <i>Diamondi</i> C. B. Ad.

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Page.		Page.	
307	Achatinella spirizona Fer.		<i>A. ustulata</i> Gulick.
	<i>A. acuta</i> Swains.	311	Achatinella picta Migh.
307	turritella Fer.		<i>A. bulbosa</i> Gulick.
	<i>A. Oahuensis</i> Green.		<i>picta</i> Pfr.
	<i>inornata</i> Migh.	311	venusta Migh.
307	decora Fer.	312	citrina Migh.
	<i>A. vestita</i> Migh.	312	plicata Migh.
	<i>perversa</i> Pfr. not Sw.		<i>Bulimus liratus</i> Pfr.
	<i>simulans</i> Pfr. [Rve.	312	nubilosa Migh.
	<i>lugubris</i> (var.) Pfr. not	312	virgulata Migh.
	<i>vittata</i> Pfr. not Rve.		<i>A. Rohri</i> Pfr.
308	tristis Fer.		<i>Bulimus Rohri</i> Pfr.
	<i>A. fuliginosa</i> Gould.		<i>A. insignis</i> Migh.
308	lugubris Chemn.	312	viridans Migh.
	<i>A. pica</i> Swains.		<i>A. radiata</i> Pfr.
	<i>Monodonta seminigra</i> Lk.		<i>radiata</i> Rve.
	<i>Bulimus seminiger</i> Mke.		<i>rutila</i> Pfr. not Newc.
308	luteola Fer.		<i>sub-virens</i> Pfr. not
308	pulcherrima Swains.		Newc.
	<i>A. mahogani</i> Gulick.		<i>decipiens</i> Pfr. not
	<i>napus</i> Pfr.	313	mustelina Migh. [Newc.
309	perversa Swains.		<i>A. lorata</i> (var. ♂) Pfr.
	<i>A. concidens</i> Gulick.	313	cingula Migh.
	<i>cinnamomea</i> Pfr.	313	radiata Gould.
309	rosea Swains.		<i>A. dubia</i> Pfr. not Newc.
309	livida Swains. [Migh.		<i>grisea</i> Pfr. not Newc.
	<i>A. viridans</i> Rve. not		<i>Partula radiata</i> Pfr.
	<i>Reevei</i> C. B. Ad.		<i>Bulimus Gouldi</i> Pfr.
	<i>Emersonii</i> Newc.		<i>Partula densilineata</i> Rve.
	<i>glauca</i> Gulick.	314	rubens Gould.
310	bulimoides Swains.		<i>A. rubens</i> Rve.
	<i>A. obliqua</i> Gulick.		<i>Mastersii</i> Pfr.
	<i>oomorpha</i> Gulick.	314	nucleola Gould.
	<i>bulimoides</i> Rve.		<i>A. brevis</i> Pfr.
310	lorata Fer.	315	striatula Gould.
	<i>A. pallida</i> Nutt.		<i>A. clara</i> Pfr.
	<i>alba</i> Nutt.		<i>clara</i> Rve.
	<i>ventrosa</i> (var.) Pfr.	315	cerealis Gould.
311	marmorata Gould.	315	acuminata Gould.
	<i>A. Adamsi</i> Newc.	315	guttula Gould.
	<i>Adamsii</i> Newc.		<i>A. gummea</i> Gulick.
	<i>perdix</i> Pfr.		<i>fragilis</i> Gulick.
	<i>induta</i> Gulick.	315	vittata Rve. [Fer.
	<i>plumbea</i> Gulick.		<i>A. decora</i> (var.) Pfr. not

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Page.		Page.	
	<i>A. globosa</i> Pfr.	320	<i>Achatinella taeniolata</i> Pfr.
315	<i>Achatinella producta</i> Ree.		<i>A. rubiginosa</i> Newc.
	<i>A. venulata</i> Newc.	320	<i>variegata</i> Pfr.
	<i>hybrida</i> Newc.		<i>A. rubens</i> (var.) Rve.
	<i>vulpina</i> Gulick not		<i>decepta</i> C. B. Ad.
316	<i>simulans</i> Ree. [Fer.	320	<i>corneola</i> Pfr.
	<i>A. decora</i> Pfr. not Fer.	320	<i>aptycha</i> Pfr.
316	<i>bella</i> Ree.	320	<i>pulchella</i> Pfr.
316	<i>colorata</i> Ree.	320	<i>cinerosa</i> Pfr.
	<i>A. ustulata</i> Pfr.	320	<i>multicolor</i> Pfr.
316	<i>bilineata</i> Ree. [Sw.		<i>A. oviformis</i> Newc.
	<i>A. pulcherrima</i> Rve. not	320	<i>Swainsoni</i> ? Pfr.
	<i>Byronii</i> Rve. not Gr.	320	<i>Sowerbyana</i> Pfr.
	<i>pulcherrima</i> Pfr. not	320	<i>dolum</i> Pfr.
317	<i>abbreviata</i> Ree. [Sw.	320	<i>rudis</i> Pfr.
	<i>A. nivosa</i> Newc.		<i>A. chlorotica</i> Pfr.
	<i>Clementina</i> Pfr.		<i>albida</i> Pfr.
317	<i>castanea</i> Ree.	321	<i>fusiformis</i> Pfr.
317	<i>olivacea</i> Ree.	321	<i>gracilis</i> Pfr.
	<i>A. prasinus</i> Rve.		<i>A. elevata</i> Newc.
317	<i>adusta</i> Ree.		<i>subula</i> Gulick.
317	<i>perdix</i> Ree.	321	<i>crassidentata</i> Pfr.
	<i>A. pyramidalis</i> Gulick.	321	<i>nobilis</i> Pfr.
	<i>undosa</i> Gulick.	321	<i>Hanleyana</i> Pfr.
318	<i>bacca</i> Ree.	321	<i>zebrina</i> Pfr.
318	<i>straminea</i> Ree.	322	<i>extincta</i> Pfr.
	<i>A. grvida</i> (var.) Fer.	322	<i>obclavata</i> Pfr.
318	<i>Byronii</i> Gray.		<i>A. octogyrata</i> Gulick.
	<i>A. melanastoma</i> Newc.		<i>turrita</i> Gulick.
	<i>limbata</i> Gulick. [Sw.	322	<i>luctuosa</i> Pfr.
	<i>pulcherrima</i> Rve. not	322	<i>Grayana</i> Pfr.
	<i>pulcherrima</i> Pfr. not	322	<i>glutinosa</i> Pfr.
319	<i>ellipsoidea</i> Gould. [Sw.		<i>A. lacrima</i> Gulick.
	<i>A. pupoidea</i> Newc.	322	<i>callosa</i> Pfr.
319	<i>magna</i> C. B. Ad.	322	<i>dimidiata</i> Pfr.
	<i>A. Baldwinii</i> Newc.	322	<i>semicostata</i> Pfr.
319	<i>modesta</i> C. B. Ad.		<i>A. costulata</i> Gulick.
319	<i>Tappaniana</i> C. B. Ad.	322	<i>teres</i> Pfr.
	<i>A. eburnea</i> Gulick.	322	<i>oryza</i> Pfr.
	<i>ampulla</i> Gulick.		<i>A. triticea</i> Gulick.
	<i>fasciata</i> Gulick.	322	<i>margarita</i> Pfr.
319	<i>Mighelsiana</i> Pfr.	322	<i>sulcata</i> Pfr.
319	<i>pyramis</i> Pfr.	322	<i>auricula</i> Fer.
	<i>A. leucochila</i> Gulick.		<i>Partula Dumartroyi</i> Soul.

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Page.		Page.	
	<i>Auricula Owaihiensis</i>		<i>A. intermedia</i> Pfr. not Newc.
	Chamisso.		
	<i>Bulimus auricula</i> Pfr.	325	Achatinella intermedia
	<i>Auricula sinistrorsa</i>		<i>A. rudis</i> Pfr. [Newc.
	Chamisso.	325	casta Newc.
	<i>Bulimus armatus</i> Migh.		<i>A. dimorpha</i> Gulick.
	<i>Tornatellina Owaihiensis</i>		<i>cognata</i> Gulick (var.)
323	Achatinella lurida Pfr. [Pfr.		<i>juncea</i> Gulick.
	<i>Tornatellina castanea</i>	326	violacea Newc.
323	obeliscus Pfr. [Pfr.	326	sanguinea Newc.
	<i>Balea Newcombi</i> Pfr.		<i>A. Ferussaci</i> Pfr.
323	amcena Pfr.	326	porphyrea Newc.
323	cerea Pfr.		<i>A. grossa</i> Pfr.
323	Chamissoi Pfr.	326	gigantea Newc.
323	Newcombiana Pfr.	326	subvirens Newc.
	<i>A. Pfeifferi</i> Newc.		<i>A. viridans</i> Pfr. not Migh.
	<i>Bulimus Newcombianus</i>	326	rutila Newc.
323	Cumingi Newc. [Pfr.		<i>A. viridans</i> Pfr. not Migh.
	<i>A. gemma</i> Pfr.		<i>macrostoma</i> Pfr.
323	farcimen Pfr.		ampla Newc.
323	Dunkeri Cuming.	327	rugosa Newc.
323	Gouldi Newc.	327	multilineata Newc.
	<i>A. talpina</i> Gulick.	327	<i>A. monacha</i> Pfr.
324	ovata Newc.		glabra Newc.
	<i>A. candida</i> Pfr.	327	<i>A. platystyla</i> Gulick.
	<i>Fricki</i> Pfr.		<i>elegans</i> Pfr. not Newc.
	<i>vidua</i> Pfr.		elegans Newc.
	<i>cervina</i> Gulick.	327	tessellata Newc.
	<i>rotunda</i> Gulick.	327	sordida Newc.
	<i>spadicea</i> Gulick.	327	<i>A. Swainsoni</i> ? Pfr.
	<i>pheozona</i> ? Gulick.		fumosa Newc.
	<i>lorata</i> Rve. not Fer.	327	lineolata Newc.
324	rufa Newc.	327	nitida Newc.
324	fulgens Newc.	327	<i>A. crystallina</i> Gulick.
	<i>A. diversa</i> Gulick (var i.)		crassilabrum Newc.
324	splendida Newc.	327	cornea Newc.
	<i>A. Bailejana</i> Gulick.	327	lablata Newc.
325	Redfieldi Newc.	328	<i>A. dentata</i> Pfr.
325	cestus Newc.		<i>lagena</i> Gulick.
325	Swiftii Newc.		vitrea Newc.
	<i>A. valida</i> Pfr.	328	<i>A. fumida</i> Gulick.
	<i>apicata</i> Newc.		affinis Newc.
325	turgida Newc.	328	<i>A. gonistoma</i> Pfr.
325	cylindrica Newc.		

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Page.		Page.	
328	Achatinella elongata Newc.		<i>A. rubens</i> (var.) Pfr. not Gld.
	<i>A. acuta</i> Newc.		
328	polita Newc.	332	Achatinella decipiens Newc.
329	soror Newc.		<i>A. viridans</i> Pfr. not Migh.
329	obesa Newc.		<i>planospira</i> Pfr.
329	terebra Newc.		<i>cuneus</i> Pfr.
	<i>A. attenuata</i> Pfr.		<i>torrida</i> Gulick.
	<i>lignaria</i> Gulick.		<i>corrugata</i> Gulick.
	<i>crocea</i> Gulick.		<i>scitula</i> Gulick.
329	melanosis Newc.		<i>herbacea</i> Gulick.
329	curta Newc.	333	variabilis Newc.
	<i>A. delta</i> Gulick.		<i>A. fulca</i> Newc.
	<i>albescens</i> Gulick.		<i>lactea</i> Gulick.
	<i>contracta</i> Gulick.	333	crassa Newc.
330	fusca Newc.	333	Buddii Newc.
	<i>A. striatella</i> Gulick.		<i>A. pera</i> Gulick.
	<i>petita</i> Gulick.		<i>plumata</i> Gulick.
330	recta Newc.		<i>papyracea</i> Gulick.
	<i>A. nympha</i> Gulick.		<i>carsia</i> Gulick.
330	grana Newc.	333	biplicata Newc.
	<i>A. granifera</i> Gulick.	333	semicarinata Newc.
	<i>vitriola</i> Gulick.	334	moesta Newc.
	<i>parvula</i> Gulick.	334	obscura Newc.
330	porcellana Newc.	334	concinna Newc.
330	mucronata Newc.	334	undulata Newc.
330	Johnsoni Newc.	334	nigra Newc.
	<i>A. aplustre</i> Newc.	334	tetrao Newc.
330	assimilis Newc.	334	succinota Newc.
330	reticulata Newc.		<i>A. marginata</i> Gulick.
	<i>A. transversalis</i> Pfr.	334	zebra Newc.
	<i>conspersa</i> Pfr.	334	humilis Newc.
331	ornata Newc.	334	petricola Newc.
331	albo-labris Newc.		<i>A. umbilicata</i> Pfr.
	<i>A. nucleola</i> Rve. not Gld.	334	fusoides Newc.
331	solitaria Newc.	334	pusilla Newc.
331	germana Newc.		<i>A. pulla</i> Newc.
331	flavescens Newc.	334	Dwightii Newc.
331	Helena Newc.	334	Remyi Newc.
331	physa Newc.	334	Maiensis Newc.
331	dubia Newc.	334	obtusa Newc.
	<i>A. radiata</i> Pfr. not Gld.	335	resinula Gulick.
332	grisea Newc.	335	saxatilis Gulick.
	<i>A. radiata</i> Pfr.	335	terebialis Gulick.
332	Mastersi Newc.	335	exilis Gulick.

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Page.

- 335 *Achatinella stiria* Gulick.
 335 *versipellis* Gulick.
 335 *cucumis* Gulick.

Page.

- 335 *Achatinella trilineata* Gul.
A. zonata Gulick (var.)
 335 *fuscula* Gulick.
 335 *formosa* Gulick.

Vol. vii, No. 1-3. March, 1859.

94 **Prime.**—List of known species of *Pisidium*, with their synonymy:
 by TEMPLE PRIME.

[The American species have already been given on p. 274.—W. G. B.]

- | | | |
|----|--|---|
| 95 | <i>Pisidium amnicum</i> Jen. Eur. | <i>Pisidium Jenynsi</i> McGil. |
| | <i>Tellina amnica</i> McGil. | <i>vitreum</i> Pfr. |
| | <i>striata</i> Schrot. | <i>nitidum</i> Jen. |
| | <i>rivalis</i> Mat. & Rack. | <i>limosum</i> Gas. |
| | <i>Cyclas palustris</i> Drap. | <i>iratianum</i> Dup. |
| | <i>Cardium amnicum</i> Mat. | <i>thermale</i> Dup. |
| | <i>Cyclas obliqua</i> Lam. | <i>caliculatum</i> Dup. |
| | <i>Pisidium obliquum</i> Pfr. | <i>sinuatum</i> Bgt. |
| | <i>Cyclas amnica</i> Turt. | <i>lenticulare</i> Dup. |
| | <i>Pera fluviatilis</i> Leach. | <i>rotundum</i> Ces. |
| | <i>Henslowiana</i> Leach. | <i>globulosum</i> Gas. |
| | <i>Pisidium inflatum</i> Meg. | <i>planum</i> Pfr. |
| | <i>Cyclas Pfeifferi</i> Meg. | <i>Stabilei</i> Schm. |
| | <i>Pisidium palustre</i> Nils. | 97 <i>Pisidium conicum</i> Baud. Fr. |
| | <i>Pfeifferi</i> Zeigl. | 98 <i>duplicatum</i> Pfr. Germ. |
| | <i>Cordula amnica</i> Leach. | <i>Cyclas duplicata</i> Pfr. |
| | <i>Pisidium Grateloupianum</i> | 98 <i>Ferroense</i> Morch. |
| | Norm. | <i>Fer. Isl.</i> |
| | <i>intermedium</i> Gas. | 98 <i>fuscum</i> Farr. Germ. |
| | <i>sulcatum</i> Parr. | 98 <i>Gassiesianum</i> Dup. Fr. |
| 96 | <i>Canariense</i> Shutl. Can. | <i>P. Normandianum</i> Dup. |
| 96 | <i>casertanum</i> Bgt. Eur. | <i>tetragonum</i> Norm. |
| | <i>Cardium casertanum</i> Poli. | <i>Baudanianum</i> Ces. |
| | <i>amnicum</i> Mont. | 98 <i>Henslowianum</i> Jen. Eur. |
| | <i>Cyclas vitrea</i> Risso. | <i>Pera Henslowiana</i> Leach. |
| | <i>Pera pulchella</i> Leach. | <i>Cyclas acuta</i> Pfr. |
| | <i>Pisidium pulchellum</i> Jen. | <i>Tellina Henslowiana</i> Shep. |
| | <i>australe</i> Phil. | <i>Cyclas appendiculata</i> |
| | <i>cinereum</i> Ald. | Turt. |
| | <i>Lumsternianum</i> Forb. | <i>Pisidium acutum</i> Pfr. |
| | <i>Cyclas pulchella</i> Hanl. | <i>Pera appendiculata</i> |
| | <i>cinerea</i> Hanl. | Leach. |
| | <i>lenticularis</i> Norm. | <i>Pisidium Jayanum</i> Gas. |
| | <i>Pisidium Joannis</i> McGil. | <i>Dupuyanum</i> Norm. |

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Page.		Page.	
	<i>Pisidium pallidum</i> Gas.		<i>Pisidium minimum</i> Stud.
	<i>Bonnafouzianum</i>		<i>Cyclas ovalis</i> Nils.
	Ces.		<i>Pisidium ovale</i> Pet.
	<i>Jaudouinianum</i> Gas.	101	<i>Pisidium pusillum</i> Jen. Eur.
	<i>pictum</i> Ces.		<i>Tellina pusilla</i> Gmel.
100	<i>Pisidium nitidum</i> Jen. Eur.		<i>Cyclas fontinalis</i> (pars.)
	<i>Cyclas pusilla</i> Turt.		<i>P. fontinale</i> Pfr. [Dup.
	<i>nitida</i> Hanl.		<i>Cyclas pusilla</i> Turt.
	<i>P. incertum</i> Norm.		<i>Englesa Henslowiana</i>
100	<i>obtusale</i> Pfr. Eur.		Leach.
	<i>Cyclas obtusalis</i> Lam.		<i>P. roseum</i> Scholtz.
	<i>minima</i> Stud.	101	<i>Recluzianum</i> Bgt. Eur.
	<i>gibba</i> Ald.	102	<i>semen Mke.</i> Oceanica.
	<i>Pera gibba</i> Leach.	102	<i>supinum</i> Schmidt.

Lea.—Notice of *Mya nodulosa* Wood: by ISAAC LEA. (From Proc. Phila. Acad. Nat. Sciences, vol. vi, p. 368. June, 1853.)

[Omitted accidentally from p. 552 of Bibliography.—W. G. B.]

Page.		Page.	
368	<i>Prisodon truncatus</i> Schum.		<i>Castalia Duprei</i> Recl.
	<i>Castalia ambigua</i> Lam.	368	<i>Prisodon nodulosus</i> Lea.
368	<i>Duprei</i> Lea.		<i>Mya nodulosa</i> Wood.

GENERAL WORKS.

SCHOOL BOOKS, &c.

There have been many works on general Natural History published in America, especially for the use of schools. They contain no descriptions, but often figures of species, though they rarely refer to American species. I have therefore quoted but the following, which will serve as specimens of the class. The list may be increased from Carus' and Engelmann's Bibliography. I have consulted all the works quoted by them.

Goodrich.—Illustrated Natural History—Mollusca. vol. ii. p. 457. New York, 1859: by SAMUEL G. GOODRICH. A figure of *Unio spinosus* is given.

Gould.—A System of Natural History, containing scientific and popular descriptions of various animals : by A. A. GOULD, M. D. Boston, 1853.

Pilkington.—Natural History ; abridged for the use of Schools : by MRS. PILKINGTON. Philadelphia, 1818.

[Chapter viii, p. 257, treats of Shell-Fish of the Testaceous kind.—W. G. B.]

Mayo, C.—Conchology for Schools. New York.

Goodrich, S. G.—A Pictorial Natural History for the use of Schools. Boston, 1851.

Wyatt, Thos.—A Synopsis of Natural History, embracing the Natural History of Animals, with human and general Animal Physiology, Botany, Vegetable Physiology, and Geology. Translated from the French, with additions, and arranged as a text-book : by THOMAS WYATT. With 49 plates. Philadelphia, 1849.

[This is a translation of Lemonnier.—W. G. B.]

ENCYCLOPEDIAS, &c.

I have already quoted the American editions of Nicholson's Encyclopedia (p. 254), and the Iconographic Encyclopedia (p. 248). There are American editions of several other foreign Cyclopedias containing articles on general Conchology (usually under that title). The American Encyclopedias also treat of Conchology in the same general manner. Among these works are the following :—

Ree.—REE'S ENCYCLOPEDIA. Philadelphia, 1810-24. Conchology, vol. ix, p. 470.

EDINBURGH ENCYCLOPEDIA. Philadelphia, 1832. Conchology, vol. vi, pt. 2, pp. 677-730.

ENCYCLOPEDIA AMERICANA. Philadelphia, 1835. Conchology.

Hodge.—APPLETON'S NEW AMERICAN ENCYCLOPEDIA. New York, 1855-63. Mollusca, &c. Vol. v contains the article Conchology : by JAMES THACHER HODGE. 1859.

Brande's DICTIONARY OF ARTS AND SCIENCES. New York, 1844. Article Conchology, &c.

Gregory's DICTIONARY OF ARTS AND SCIENCES. Philadelphia, 1815, 1816.

Conrad.—Remarks on the fossil Shells from Chili, collected by Lieut. Gilliss, with descriptions of the species: by T. A. CONRAD. (From the U. S. Naval Astronomical Expedition, vol. ii, p. 282. Washington, 1855. The full title will be found on p. 521.)

[The following is the only recent species described.—W. G. B.]

Page.

286 **Saxicava Caldarensis** *Conr.*

PART I.
AMERICAN AUTHORS.

**C.—WRITINGS ON FOREIGN SPECIES AND IN
FOREIGN WORKS.**

BIBLIOGRAPHY

OF

NORTH AMERICAN CONCHOLOGY.

In order to complete the list of the Conchological writings of American authors, it becomes necessary to quote the titles of a few papers on foreign species published by them in foreign periodicals. Besides those given below, there have occurred in foreign works many criticisms, notices, translations, &c., of papers published by American authors in American books. Some few of these have been referred to in the previous pages of my Bibliography. Many more will be given in Part II, especially in the quotations from the *Isis*, *Journal de Conchyliologie*, *Zeitschrift für Malakozoologie*, *Malakozoolische Blätter*, *Bulletin Zoologique*, *Bibliographie Conchyliologique*, and *Archiv für Naturgeschichte*.

Rafinesque.—(See former pp. 403, 488.)

Lea.—Description of a new genus of the family *Melaniana*, and of many new species of the genus *Melania*, chiefly collected by Hugh Cuming, Esq., during his Zoological Voyage to the East, and now first described: by ISAAC LEA and HENRY CAREY LEA. (From the *Proc. of the Zoological Society of London*, vol. xviii, No. 212, p. 179, 1850; also distributed in a separate pamphlet, and published in *Annals of Nat. Hist.*, Second Series, vol. ix, p. 58.) And

Lea.—Description of five new species of Anodonta, collected by Hugh Cuming, Esq., in the East Indies. (From same as last, p. 197, and Ann. of Nat. Hist., Second Series, vol. viii, p. 493.)

Gould.—On the Nautilus umbilicatus of Lister : by AUG. A. GOULD, M. D. (From Proc. Zoological Soc. of London, 1857, p. 20 ; and Ann. and Magazine of Nat. History, Second Series, vol. xx, No. 115, p. 57. July, 1857.)

Zool. Soc. Page.	Mag. N. H. Page.	
21	59	<i>Nautilus umbilicatus</i> List.
21	59	<i>scrobiculatus</i> Solander.
		<i>N. pompilius</i> (var. θ) Gmel.
		<i>crassus, umbilicatus</i> Chemn.
		<i>umbilicatus</i> Knorr.

Newcomb, W., M. D.—Descriptions of seventy-nine new species of Achatinella, *Swains.*, a genus of Pulmoniferous Mollusks, in the collection of Hugh Cuming. With three plates. (From Proc. Zool. Soc. London, 1853, p. 128.)

Newcomb, W., M. D.—Abstract of descriptions of some animals of Achatinella, and other remarks. (From same, 1854, p. 310.)

Lesueur, C. A.—Mémoire sur quelques nouvelles espèces d'animaux Mollusques et Radiaires de la Méditerranée, in Nouv. Bull. Scienc. Soc. Philom., tom. iii, 1813, pp. 281-285.

Lesueur, C. A.—Histoire du genre Firola : par FRC. PERON et C. A. LESUEUR. (From Annales du Muséum, xv, 1810, pp. 70-75.)

Carpenter, P. P.—Descriptions of new species of Shells collected by Mr. T. Bridges in the Bay of Panama and its vicinity. (From Proc. Zool. Soc. London, 1856, p. 159.)

[Other papers are contained in the Proc. Zool. Soc. London, and will be quoted from thence.—W. G. B.]

Adams, Bland, Lea.—In the *Journal de Conchyliologie* are notices and translations of several of the papers of Messrs. ADAMS, BLAND and LEA. They will be quoted in the Second Part of the Bibliography.

Agassiz, L.—Mémoires sur les Moules de Mollusques vivants et fossiles. (From. *Mém. de la Soc. des Sciences Naturelles de Neuchatel*, tome ii, 1839.)

Agassiz, L.—Notice sur le *Mya alba* de Porto Rico. (From same as last, vol. ii, 1839.)

Agassiz, L.—Note sur le genre *Pyrula* de Lamarck (in *Bull. de la Soc. Sc. Nat. Neuchatel*, tome i, 1844, p. 69).

Agassiz, L.—Notice sur les Moules du Musée de Neuchatel (in *Bull. Soc. Imp. Natur. Moscow*, 1839, p. 415).

APPENDIX I.

TO

**PART I., SECTION A., AMERICAN WRITINGS
ON AMERICAN SPECIES.**

(615)

BIBLIOGRAPHY

OF

NORTH AMERICAN CONCHOLOGY.

Read.—Catalogue of the Marine, Fluvial, and Terrestrial Shells of Massachusetts: by WILLIAM READ, M. D. Lynn, Nov. 1845.

[No descriptions are given.—W. G. B.]

No.		No.	
22	<i>Teredo navalis</i> Linn.	38	<i>Pandora trilineata</i> Say. <i>P. nasuta</i> Sowb.
23	<i>Pholas costata</i> Linn.	39	<i>Osteodesma hyalina</i> Couth. <i>Mya hyalina</i> Conr.
24	<i>crispata</i> Linn.	40	<i>Anatina papyratia</i> Say.
25	<i>Solen ensis</i> Linn.	41	<i>Cochlodesma Leana</i> Couth. <i>Anatina Leana</i> Conr.
26	<i>viridis</i> Say.	42	<i>Thracia Conradi</i> Couth. <i>T. declivis</i> Conr.
27	<i>Solecurtus Caribæus</i> Conr. <i>Solen Caribæus</i> Lam.	43	<i>Macra solidissima</i> Chemn. <i>M. gigantea</i> Lam.
28	<i>fragilis</i> Conr. <i>Solen fragilis</i> Pult. <i>centralis</i> Say.	44	<i>ovalis</i> Gould. <i>M. similis</i> Gray.
29	<i>Machæra costatus</i> Gould. <i>Solecurtus costatus</i> Say.	45	<i>lateralis</i> Say.
30	<i>nitida</i> Gould.	46	<i>Cumingia tellinoides</i> Conr. <i>Macra tellinoides</i> Conr.
31	<i>Solemya borealis</i> Totten.	47	<i>Mesodesma arotata</i> Gould. <i>Macra arotata</i> Conr.
32	<i>velum</i> Say.	48	<i>Jaressii</i> De Joannis.
33	<i>Panopæa arctica</i> Gould. <i>Glycymeris arctica</i> Lam.	49	<i>Montacuta bidentata</i> Gld.
34	<i>Glycymeris siliqua</i> Lam.	50	<i>Kellia rubra</i> Turt.
35	<i>Mya arenaria</i> Linn. <i>M. mercenaria</i> Say.	51	<i>Saxicava distorta</i> Say.
36	<i>truncata</i> Linn.		
37	<i>Corbula contracta</i> Say.		

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| No. | | No. | |
| 52 | Petricola pholadiformis
<i>P. fornicata</i> Say. [Lam.] | 85 | Nucula minuta Turt.
<i>N. tenuisulcata</i> Couth. |
| 53 | dactylus Sowb. | 86 | myalis Couth. |
| 54 | Sanguinolaria fusca Conr.
<i>Psammobia fusca</i> Say. | 87 | navicularis Couth. |
| 55 | sordida Gould.
<i>Tellina sordida</i> Couth. | 88 | proxima Say. |
| 56 | Tellina tenera Say. | 89 | sapotilla Gould. |
| 57 | tenta Say. | 90 | tenuis Turt. |
| 58 | calcaria. | 91 | thraciæformis Storer. |
| 59 | Lucina radula Gould.
<i>Tellina radula</i> Mont. | 92 | Unio complanatus Lea.
<i>U. purpureus</i> Say. |
| 60 | divaricata Lam. | 93 | cariosus Say. |
| 61 | flexuosa Gould.
<i>Cryptodon flexuosa</i> Turt. | 94 | nasutus Say. |
| 62 | Cyclas dubia Say. | 95 | radiatus Barnes. |
| 63 | elegans Ad. | 96 | ochraceus Say. |
| 64 | partumeia Say. | 97 | Alasmodon arcuata Barnes. |
| 65 | similis Say. | 98 | marginata Say. |
| 66 | Astarte castanea Say.
<i>Crassina castanea</i> Lam. | 99 | undulata Barnes.
<i>Unio undulata</i> Say. |
| 67 | lactea Br. & Sowb. | 100 | Anodon fluviatilis Lea.
<i>A. cataracta</i> Say. |
| 68 | quadrans Gould. | 101 | implicata Say. |
| 69 | sulcata Fleming.
<i>Venus sulcata</i> Mont.
<i>Crassina sulcata</i> Lam.
<i>A. Danmoniensis</i> Sowb. | 102 | undulata Say. |
| 70 | Cyprina islandica Lam.
<i>Venus islandica</i> Linn. | 103 | Mytilus edulis Linn. |
| 71 | Cytherea convexa Say. | 104 | var. pellucidus Pennant. |
| 72 | Venus mercenaria Linn. | 105 | Modiola barbata Lam. |
| 73 | notata Say. | 106 | discors Flem. |
| 74 | præparca (var.) Say. | 107 | discrepans Gould.
<i>Mytilus discrepans</i> Mont. |
| 75 | fluctuosa Gould. | 108 | glandula Totten. |
| 76 | gemma Totten. [Chemn.] | 109 | modiolus Turt.
<i>M. papuana</i> Lam. |
| 77 | Cardium Grœnlandicum | 110 | nexa Gould. |
| 78 | islandicum Linn.
<i>C. pubescens</i> Couth. | 111 | pectinula Gould. |
| 79 | Mortoni Conr. | 112 | plicatula Lam. |
| 80 | pinnulatum Conr. | 113 | Pecten concentricus Say. |
| 81 | Cardita borealis Conr. | 114 | islandicus Chemn.
<i>P. Pealii</i> Conr. |
| 82 | Arca pexata Say. | 115 | Magellanicus Lam. |
| 83 | transversa Say. | 116 | Ostrea borealis Lam.
<i>O. edulis</i> Linn. |
| 84 | Nucula limatula Say. | 117 | virginiana List. |
| | | 118 | Anomia aculeata Gmel. |
| | | 119 | squamula Linn. |
| | | 120 | ephippium Linn. |

No.		No.	
121	Terebratula caput-ser- pentis Lam.	159	Helix monodon Rack.
	<i>T. septentrionalis</i> Couth.		<i>H. fraterna</i> Say.
122	psittacea Gmel.	160	hirsuta Say.
123	Chiton albus Mont.		<i>H. fraterna</i> Wood.
	<i>C. sagrinatus</i> Couth.	161	pulchella Müll.
124	apiculatus Say.		<i>H. minuta</i> Say.
125	anus Sowb.	162	striatella Anth.
	<i>C. Emersonii</i> Couth.	163	thyroidus Say.
126	fulminatus Couth.	164	tridentata Say.
127	marginatus Pennant.	165	Pupa contracta Say.
128	ruber Lowe.	166	curvidens Gould.
129	Patella candida Couth.	167	exigua Say.
130	Lottia alveus Gould.	168	fallax Say.
131	testudinalis Gould.	169	milium Gould.
	<i>Patella amana</i> Say.	170	modesta Say.
132	— (sp. ind.)	171	simplex Gould.
133	Dentalium dentale Linn.	172	Tappaniana Ward.
134	Cemoria noachina Gould.	173	Bulimus lubricus Brug.
	<i>Patella noachina</i> Linn.	174	Succinea avara Say.
135	Crepidula convexa Say.	175	campestris Say.
136	fornicata Lam.	176	ovalis Say.
137	glauca Say.	177	Auricula bidentata Gould.
138	plana Say.		<i>Melampus bidentatus</i> Say.
139	Bulla canaliculata Gould.	178	denticulata Gould.
140	debilis Gould.	179	Planorbis armigerus Say.
141	Gouldii Couth.	180	bicarinatus Say.
142	hiemalis Couth.	181	campanulatus Say.
143	insculpta Totten.	182	deflectus Say.
144	lineolata Couth.	183	dilatatus Gould.
145	obstricta Gould.	184	elevatus Ad.
146	oryza Totten.	185	exacutus Say.
147	triticea Couth.	186	hirsutus Gould.
148	Helix albo-labris Say.	187	lentus Say.
149	alternata Say.	188	parvus Say.
	<i>H. scabra</i> Lam.	189	trivolvus Say.
150	arborea Say.	190	virens .
151	cellaria Müll.	191	Physa ancillaria Say.
152	chersina Say.	192	elongata Say.
153	electrina Gould.	193	heterostropha Say.
154	hortensis Müll.	194	Limnæa columella Say.
155	subglobosa (var.) Binn.	195	chalybea (var.) Gould.
156	lineata Say.	196	catascopium Say.
157	indentata Say.	197	elodes Say.
158	labyrinthica Say.	198	desidiosus Say.

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| No. | | No. | |
| 199 | <i>Limnæa macrostoma</i> Say.
<i>L. acuminata</i> Ad. | 232 | <i>Margarita undulata</i> Sowb.
<i>Turbo incarnatus</i> Couth. |
| 200 | <i>modicellus</i> Say. | 233 | <i>Littorina palliata</i> Gould.
<i>Turbo palliatus</i> Say. |
| 201 | <i>umbilicata</i> Ad. | 234 | <i>rudis</i> Gould.
<i>Turbo obligatus</i> Say. |
| 202 | <i>Ancylus fuscus</i> Ad. | 235 | <i>tenebrosa</i> Gould.
<i>Turbo vestitus</i> Say. |
| 203 | <i>rivularis</i> Say. | 236 | <i>Lacuna neritoidea</i> Gould. |
| 204 | <i>Valvata pupoidea</i> Gould. | 237 | <i>vineta</i> Gould.
<i>L. pertusa</i> Conr. |
| 205 | <i>tricarinata</i> Say. | 238 | <i>fusca</i> (var.) Ad. |
| 206 | <i>Paludina decisa</i> Say. | 239 | <i>Cingula aculeus</i> Gould.
<i>Turbo aculeus</i> Ad. |
| 207 | <i>Amnicola porata</i> Say. | 240 | <i>minuta</i> Gould.
<i>Turbo minuta</i> Totten. |
| 208 | <i>Natica canaliculata</i> Gould. | 241 | <i>Turritella erosa</i> Couth. |
| 209 | <i>clausa</i> Brod.
<i>N. consolidata</i> Couth. | 242 | <i>interrupta</i> Totten. |
| 210 | <i>duplicata</i> Say. | 243 | <i>Pyramis striatula</i> Couth. |
| 211 | <i>flava</i> Gould. | 244 | <i>Odostomia exigua</i> Gould.
<i>Jaminia exigua</i> Couth. |
| 212 | <i>heros</i> Say. | 245 | <i>fusca</i> Gould. |
| 213 | <i>immaculata</i> Totten. | 246 | <i>producta</i> Gould.
<i>Jaminia producta</i> Ad. |
| 214 | <i>pusilla</i> Say. | 247 | <i>seminuda</i> Gould. |
| 215 | <i>triseriata</i> Say. | 248 | <i>trifida</i> Gould.
<i>Acteon trifidus</i> Totten. |
| 216 | — (sp. ind.) | 249 | <i>Cerithium Emersonii</i> Ad. |
| 217 | <i>Janthina fragilis</i> Brug. | 250 | <i>Greenii</i> Ad. |
| 218 | <i>Velutina lævigata</i> Gould.
<i>V. rupicola</i> Conr. | 251 | <i>nigrocinctum</i> Ad. |
| 219 | <i>zonata</i> Gould. | 252 | <i>terebrale</i> Ad. |
| 220 | <i>Sigaretus haliotoideus</i> Lam.
<i>Orynoe glabra</i> Couth. | 253 | <i>Sayi</i> Mke.
<i>C. reticulatum</i> Totten. |
| 221 | <i>Tornatilla puncto-striata</i>
Ad. | 254 | <i>Pleurotoma decussata</i> Cth. |
| 222 | <i>Vermetus lumbricalis</i> Lam. | 255 | <i>bicarinata</i> Couth. |
| 223 | <i>Skenea serpuloides</i> Flem.
<i>Delphinula serpuloides</i>
Ad. | 256 | <i>plicata</i> Ad. |
| 224 | <i>Scalaria Grœnlandica</i> Gld.
<i>S. subulata</i> Couth. | 257 | <i>Cancellaria Couthouyi</i> Jay.
<i>C. buccinoides</i> Couth. |
| 225 | <i>lineata</i> Say. | 258 | <i>Fusus bamffius</i> Flem. |
| 226 | <i>multistriata</i> Say. | 259 | <i>decemcostatus</i> Say. |
| 227 | <i>nov-angliæ</i> Couth. | 260 | <i>harpularius</i> Couth. |
| 228 | <i>Margarita cinerea</i> Gould.
<i>Turbo cinereus</i> Couth. | 261 | <i>islandicus</i> Mart.
<i>F. carneus</i> Say. |
| 229 | <i>argentea</i> Gould. | 262 | <i>muricatus</i> Brown. |
| 230 | <i>arctica</i> Leach.
<i>Turbo inflatus</i> Totten. | | |
| 231 | <i>obscura</i> Gould.
<i>Turbo obscurus</i> Couth. | | |

No.		No.	
263	<i>Fusus rufus</i> Gould.	277	<i>Buccinum ciliatum</i> Gould.
264	<i>pygmæus</i> (var.) Gould.		<i>B. ventricosum</i> Kien.
265	<i>scalariformis</i> Gould.	278	<i>Donovani</i> Gray.
266	<i>tornatus</i> Gould.	279	<i>lunatum</i> Ad.
267	<i>turricula</i> Flem.	280	<i>obsoletum</i> Ad.
268	<i>ventricosus</i> Gray.	281	<i>plicosum</i> Mke.
269	<i>Pyrula canaliculata</i> Brug.		<i>Fus. cinereus</i> Say.
270	<i>carica</i> Brug.	282	<i>rosaceum</i> Gould.
271	<i>Ranella caudata</i> Say.	283	<i>trivittatum</i> Ad.
272	<i>Rostellaria occidentalis</i>		<i>Nassa trivittata</i> Say.
	Beck.	284	<i>undatum</i> Linn.
273	<i>Trichotropis borealis</i> Sowb.	285	<i>vibex</i> Ad.
	<i>T. costellatus</i> Couth.		<i>Nassa vibex</i> Say.
274	<i>Purpura lapillus</i> Lam.	286	<i>Columbella avara</i> Say.
275	<i>imbricata</i> (var.) Lam.	287	<i>Spirula Peronii</i> Lam.
276	<i>bizonalis</i> (var.) Lam.		

Hubbard.—Catalogue of Terrestrial and Fluvial Shells of Ohio, in the collection of EBER W. HUBBARD, Elyria, Ohio.

[No descriptions are given.—W. G. B.]

No.		No.	
1	<i>Amnicola Cincinnatiensis</i>	13	<i>Cyclas dubia</i> Say.
	Anth.	14	<i>partumela</i> Say.
	<i>Paludina Cincinnatiensis</i>		<i>C. cornea</i> (var.) Lam.
2	<i>integra</i> Say. [Anth.	15	<i>similis</i> Say.
	<i>Melania integra</i> Say.		<i>C. sulcata</i> Lam.
3	<i>lapidaria</i> Say.	16	<i>Helix albolabris</i> Say.
	<i>Cyclostoma lapidaria</i> Say.	17	<i>alternata</i> Say.
4	<i>lustrica</i> Say.		<i>H. scabra</i> Lam.
	<i>Paludina lustrica</i> Say.		<i>radiata</i> Gmel.
5	<i>Sayana</i> Anth.	18	<i>appressa</i> Say.
	<i>Cyclostoma Sayana</i> Anth.		<i>H. linguifera</i> Fer.
	<i>Cincinnatiensis</i> Lea.	19	<i>arborea</i> Say.
6	<i>Anculosa costata</i> Anth.	20	<i>clausa</i> Say.
7	<i>isogona</i> Say.		<i>H. Mitchelliana</i> Lea.
	<i>Melania isogona</i> Say.	21	<i>chersina</i> Say.
	<i>Paludina pallida</i> Lea.	22	<i>concava</i> Say.
8	<i>præorsa</i> Say. [Lea.		<i>H. planorboides</i> Fer.
	<i>Melania Cincinnatiensis</i>		<i>Vancouverensis</i> Lea.
9	<i>Ancylus diaphanus</i> Hald.	23	<i>electrina</i> Gould.
10	<i>rivularis</i> Say.	24	<i>elevata</i> Say.
11	<i>Bulimus lubricus</i> Brug.		<i>H. Knoxvilleana</i> Fer.
12	<i>vermetus</i> Anth.	25	<i>fallax</i> Say.

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| No. | | No. | |
| 26 | Helix fraterna Say.
<i>H. monodon</i> Wood.
<i>conveza</i> Desh. | 49 | Helix suppressa Say. |
| 27 | fuliginosa Griffith.
<i>H. lucubrata</i> Say.
<i>lavigata</i> Fer. | 50 | tridentata Say. |
| 28 | hirsuta Say.
<i>H. fraterna</i> Wood. | 51 | thyroidus Say. |
| 29 | indentata Say. | 52 | zaleta Say. |
| 30 | inflecta Say.
<i>H. clausa</i> Fer. | 53 | Limnea caperata Say. |
| 31 | inornata Say. | 54 | desidiosa Say.
<i>L. curta</i> Lea. |
| 32 | interna Say.
<i>H. pomum Adami</i> Green. | 55 | elodes Say. |
| 33 | intertexta Binney. | 56 | humilis Say. |
| 34 | labyrinthica Say. | 57 | reflexa Say.
<i>L. exilis</i> Lea. |
| 35 | ligera Say.
<i>H. Rafinesquea</i> Fer.
<i>Wardiana</i> Lea. | 58 | jugularis Say.
<i>L. speciosa</i> Rossmasler. |
| 36 | limatula Ward. | 59 | umbrosa Say. |
| 37 | lineata Say. | 59½ | columella Say. |
| 38 | minuscula Binney.
<i>H. minutissima</i> Lea. | 60 | Melania canaliculata Say. |
| 39 | monodon Rack.
<i>H. Leaii</i> Ward. | 61 | conica Say. |
| 40 | multilineata Say. | 62 | depygis Say. |
| 41 | palliat Say.
<i>H. obstricta</i> Say.
<i>denotata</i> Say.
<i>Carocolla Helicoides</i> Lea.
<i>Carocolla Carolinensis</i> Lea. | 63 | exilis Hald.
<i>M. Kirtlandianus</i> Lea. |
| 42 | Pennsylvanica Green. | 64 | gracilis Anth. |
| 43 | perspectiva Say.
<i>H. parvula</i> Desh. | 65 | Sayii Wood. |
| 44 | profunda Say.
<i>H. Richardi</i> Lam. | 66 | excurata Conr. |
| 45 | pulchella Müll.
<i>H. minuta</i> Say.
<i>paludosa</i> Mont. | 67 | undulata Say. |
| 46 | Sayii Binney.
<i>H. diodont</i> Say. | 68 | varicosa Ward. |
| 47 | solitaria Say. | 69 | Paludina heterostroph |
| 48 | striatella Anth. | 70 | integra Say. [Kirt. |
| | | 71 | ponderosa Say. |
| | | 72 | subcarinata Say.
<i>P. carinata Valenciennes.</i> |
| | | 73 | Physa ancillaria Say.
<i>P. Sayii</i> Tappan. |
| | | 74 | elongata Say. |
| | | 76 | gyrini Say.
<i>P. elliptica</i> Lea. |
| | | 77 | heterostroph Say.
<i>P. aurea</i> Lea. |
| | | 78 | Planorbis armigerus Say. |
| | | 79 | bicarinatus Say. |
| | | 80 | campanulatus Say. |
| | | 81 | concavus Anth. |
| | | 82 | corpulentus Say. |
| | | 83 | deflectus Say. |
| | | 84 | dilatatus Gould.
<i>P. lens</i> Lea. |

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| No. | | No. | |
| 85 | Planorbis exacutus Say.
<i>Paludina hyalina</i> Lea. | | <i>U. ellipticus</i> Barnes.
<i>venustus</i> ? Lea. |
| 86 | lentus Say. | 107 | Unio cylindricus Say.
<i>U. solenoides</i> Raf.
<i>naviformis</i> Lam. |
| 87 | parvus Say. | | |
| 88 | trivolvus Say. | 108 | cyphius Raf.
<i>U. asopus</i> Green. |
| 89 | Pupa albilabris Ward.
<i>Cyclostoma marginata</i> | 109 | dilatatus Raf.
<i>U. gibbosus</i> Barnes.
<i>nasutus</i> Lam.
<i>arctior</i> Lea. |
| 90 | armifera Say. [Say. | 110 | flavus Raf.
<i>U. rubiginosus</i> Lea.
<i>trigonus</i> Lea. |
| 91 | contracta Say. | 111 | fasciolus Raf.
<i>U. multiradiatus</i> Lea. |
| 92 | corticaria Say. | 112 | fasciolaris Raf.
<i>U. phaseolus</i> Hild.
<i>planulatus</i> Lea.
<i>camelus</i> Lea. |
| 93 | exigua Say. | 113 | flexuosus Raf.
<i>U. foliatus</i> Hild. |
| 94 | modesta Say. | 114 | fragilis Raf.
<i>U. gracilis</i> Barnes. |
| 95 | Succinea campertris Say.
<i>S. retusa</i> Lea. | 115 | fragosus Contr. |
| 96 | avara Say. | 116 | gibbosus Raf.
<i>U. torulosus</i> Raf.
<i>perplexus</i> Lea.
<i>Rangianus</i> Lea.
<i>capsaeformis</i> Lea. |
| 97 | ovalis Say. | 117 | heros Say.
<i>U. undulatus</i> Say.
<i>multiplicatus</i> Lea. |
| 98 | Valvata sincera Say. | 118 | lapillus Say.
<i>U. fabalis</i> Lea.
<i>Troostensis</i> Lea. |
| 99 | tricarinata Say.
<i>V. bicarinata</i> Lea. | 119 | leptodon Raf.
<i>U. planus</i> Barnes.
<i>velum</i> Say.
<i>purpurascens</i> Swains.
<i>tenuissimus</i> Lea. |
| 100 | Unio alasmodontinus Barn.
<i>U. compressus</i> Lea. | 120 | lineolatus Raf.
<i>U. depressus</i> Raf.
<i>securis</i> Lea. |
| 101 | alatus Say.
<i>U. megapterus</i> Raf. | | |
| 102 | bullatus Raf.
<i>U. prasinus</i> Contr.
<i>Schoolcraftensis</i> Lea.
<i>pustulosus</i> Lea.
<i>Dorfeuillanus</i> Lea. | | |
| 103 | cardium Raf.
<i>U. ventricosus</i> Barnes.
<i>occidens</i> Lea.
<i>sub-ovatus</i> Lea.
<i>dolabriformis</i> Lea. | | |
| 104 | cicatricosus Say.
<i>U. varicosus</i> Lea. | | |
| 105 | cuneatus Raf.
<i>U. modioliformis</i> Say.
<i>scalenius</i> Raf.
<i>patulus</i> Lea.
<i>decisus</i> ? Lea. | | |
| 106 | crassus Say.
<i>U. ellipsarius</i> Raf.
<i>fasciatus</i> Raf.
<i>ligamentina</i> Lam.
<i>carinatus</i> Barnes. | | |

- | No. | | No. | |
|------|---|-----|--|
| 121 | Unio metanevrus Raf.
<i>U. nodosus</i> Barnes. | 136 | Unio politus Say.
<i>U. subrotundus</i> Lea. |
| 122 | monodontus Say.
<i>U. soleniformis</i> Lea. | | <i>Kirtlandianus</i> Lea. |
| 123 | mytiloides Raf.
<i>U. cordatus</i> Raf.
<i>undatus</i> Barnes.
<i>pyramidatus</i> Lea.
<i>solidus</i> Lea. | 137 | quadrulus Raf.
<i>U. rugosus</i> Barnes.
<i>lachrymosus</i> Lea.
<i>asperimus</i> Lea. |
| 124 | nasutus Say.
<i>U. rostratus</i> Val.
<i>Vaughanianus</i> ? Lea. | 138 | rubrum Raf.
<i>U. coccineus</i> Hild.
<i>Gouldianus</i> Ward.
<i>catillus</i> Contr. |
| 125 | nervosus Raf.
<i>U. donaciformis</i> Lea.
<i>zig-zag</i> Lea. | 139 | reflexus Raf.
<i>U. cornutus</i> Barnes. |
| 126 | nigrum Raf.
<i>U. cuneatus</i> Barnes.
<i>gibber</i> Lea. | 140 | rectus Lam.
<i>U. latissimus</i> Raf.
<i>prælongus</i> Barnes. |
| 127 | nodulatus Raf.
<i>U. pustulatus</i> Lea. | 141 | Sayii Ward. |
| 128 | obliquatus Raf.
<i>U. sulcatus</i> Lea.
<i>ridibundus</i> Say. | 142 | siliquoideus Barnes.
<i>U. inflatus</i> Barnes.
<i>Hydianus</i> Lea. |
| 129 | obovalis Raf.
<i>U. ebenus</i> Lea. | 143 | stegarius Raf.
<i>U. irroratus</i> Lea. |
| 130 | Ohioensis Raf.
<i>U. levissimus</i> Lea.
<i>inflatus</i> Lea. | 144 | striatus Raf.
<i>U. Cooperianus</i> Lea. |
| 131 | olivarius Raf.
<i>U. ellipsis</i> Lea. | 145 | subrostratus Say.
<i>U. iris</i> Lea. |
| 132 | orbiculatus Hild.
<i>U. abruptus</i> Say. | 146 | subrotundus Raf.
<i>U. circulus</i> Lea.
<i>lens</i> Lea. |
| 133 | ovatus Say.
<i>U. globosus</i> Lea.
<i>capax</i> Green. | 147 | teres Raf.
<i>U. anodontoides</i> Lea. |
| 134 | parvus Barnes. | 148 | torsus Raf. |
| 134½ | personatus Say.
<i>U. pileus</i> Lea.
<i>plenus</i> Lea.
<i>Sowerbianus</i> Lea. | 149 | triquetrus Raf.
<i>U. cuneatus</i> Swains.
<i>triangularis</i> Barnes.
<i>formosus</i> Lea. |
| 135 | plicatus Say.
<i>U. raripectus</i> Lam.
<i>costatus</i> Raf.
<i>Peruvianus</i> Lam. | 150 | truncatus Raf.
<i>U. elegans</i> Lea. |
| | | 151 | tuberculatus Raf.
<i>U. tuberculosus</i> Val.
<i>verrucosus</i> Barnes.
<i>graniferus</i> Lea. |
| | | 152 | undulatus Barnes. |
| | | 153 | verrucosus Raf.
<i>U. tuberculatus</i> Barnes. |

No.		No.	
154	Anodonta cataracta Say. <i>A. exilis</i> Lea. <i>salmonia</i> Lea. <i>Pepiniana</i> Lea.	158½	Alasmodonta ambigua Say. <i>Unio Hildrethianus</i> Lea.
155	Ferrusaciana Lea.	159	calceola Lea. <i>A. deltoidea</i> Lea.
156	grandis Say. <i>A. plana</i> Lea. <i>decora</i> Lea. <i>gigantea</i> Lea.	160	complanata Barnes.
157	imbecillis Say. <i>A. incerta</i> Lea.	161	costata Raf. <i>A. rugosa</i> Barnes.
158	lata Raf. <i>Unio dehiscens</i> Say. <i>oriens</i> Lea.	162	edentula Say. <i>Anodonta undulata</i> Say. <i>areolata</i> ? Sw. <i>rugosa</i> ? Swains. <i>Wardiana</i> Lea. <i>pavonia</i> Lea. <i>Buchanensis</i> Lea.
		163	truncata Say.

Say, Conrad, Toumey, Holmes, Morton, &c.—

In the various publications which have appeared on the fossil Shells of America will be found information regarding many species supposed to be identical with recent species.

Mrs. Sheppard, of Woodfield, on the recent Shells which characterize Quebec and its environs. (From Transactions of the Literary and Historical Society of Quebec, vol. i, p. 188. Quebec, 1829.)

[Descriptions of genera and species are given.—W. G. B.]

Page.		Page.	
189	Solen ———.	195	Planorbis spirorbis.
190	Mya arenaria.	195	alba? <i>Helix alba</i> Linn.
190	Venus mercenaria.	195	———.
191	Unio sinuata.	195	Physa fontinalis.
191	radiata.	195	subopaca.
191	nanca.	196	Lymnæa stagnalis.
192	Modiola plicatula.	196	palustris.
192	Mytelus borealis.	196	Paludina ———.
192	Ostrea canadensis.	196	———.
193	Crepidula fornicata.	197	Natica magdalena.
193	Helix hortensis.	197	Buccinum ———.
194	———.	198	———.
194	Carocolla dubia.		
194	Succinea amphibia.		

Rafinesque.—I have been unable to obtain access to two works of this author, in both of which occur descriptions of Mollusca.

Rafinesque.—Journal Encyclopedique de la Sicile.

Rafinesque.—Analyse de la Nature, ou Tableau de l'Univers et des corps organisés. Palerme, 1825.

Jarvis, J.—On the Tereido, or salt-water worm. (In Proc. Nat. Inst. Washington, New Series, vol. i, No. 2, 1856, pp. 60-67.)

D'Urban.—Catalogue of Animals and Plants collected and observed in the valley of the River Rouge and the neighboring townships, in the counties of Argenteuil and Ottawa: by Mr. W. S. M. D'URBAN, Assistant to Sir William Logan, in 1858. (From the Geological Survey of Canada. Report of Progress for the year 1858. Montreal, 1859.)

[Localities, but no descriptions, are given.—W. G. B.]

Page.		Page.	
241	<i>Tebennophorus Carol-</i>	241	<i>Vertigo Gouldii</i> Binney.
	<i>nensis</i> Bosc.	241	Pupa ———.
241	<i>Succinea obliqua</i> Say.	241	<i>Carychium exiguum</i> Say.
241	<i>Helix albolabris</i> Say.	241	<i>Physa heterostropha</i> Say.
241	<i>exoleta</i> Binney.	241	<i>aurea</i> Lea.
241	<i>monodon</i> Rack.	242	<i>elliptica</i> Lea.
241	<i>concava</i> Say.	242	<i>elongata</i> Say.
241	<i>pulchella</i> Mull.	242	<i>Limnæa exigua</i> Lea.
241	<i>Sayii</i> Binney.	242	<i>galbanus</i> Say.
241	<i>labyrinthica</i> Say.	242	<i>plicata</i> Lea.
241	<i>alternata</i> Say.	242	<i>reflexa</i> Say.
241	<i>striatella</i> Anth.	242	<i>umbilicata</i> Say.
241	<i>arborea</i> Say.	242	<i>Planorbis trivolvus</i> Say.
241	<i>chersina</i> Say.	242	<i>bicarinatus</i> Say.
241	<i>lineata</i> Say.	242	<i>campanulatus</i> Say.
241	<i>Bullimus marginatus</i> Say.	242	<i>parvus</i> Say.
241	<i>Achatina lubrica</i> Mull.	242	<i>deflectus</i> Say.

Page.		Page.	
242	<i>Paludina decisa</i> Say.	243	<i>Anodonta fragilis</i> Linn.
242	<i>Valvata tricarinata</i> Say.	243	<i>Footiana</i> Lea.
242	<i>Unio complanatus</i> Lea.	243	<i>Cyclas similis</i> Say.
242	<i>Margaritana rugosa</i> Barnes.	243	<i>partumeia</i> ? Say.
242	<i>Anodonta cygnea</i> ? Linn.	243	<i>dubia</i> ? Say.
243	<i>edentula</i> Say.		

Bell.—Catalogue of Animals and Plants collected and observed on the southeast side of the St. Lawrence, from Quebec to Gaspé, and in the counties of Rimouski, Gaspé and Bonaventure: by Mr. ROBERT BELL, Jr., Assistant to Mr. James Richardson, Geological Explorer under Sir William Logan, in 1858. (From same as last, p. 243.)

Page.		Page.	
251	<i>Helix alternata</i> Say.	252	<i>Limnæa catascopium</i> Say.
251	<i>albolabris</i> Say.	252	<i>apacina</i> Lea.
251	<i>monodon</i> Rack.	252	<i>acuta</i> Lea.
251	<i>Sayii</i> Binney.	252	<i>umbilicata</i> Say.
251	<i>concava</i> Say.	252	<i>reflexa</i> Say.
251	<i>hortensis</i> Müll.	252	<i>pallida</i> Ad.
251	<i>arborea</i> Say.	252	<i>modicella</i> Say.
251	<i>striatella</i> Anth.	252	<i>parva</i> Lea.
251	<i>lineata</i> Say.	252	<i>decollata</i> Say.
251	<i>labyrinthica</i> Say.	252	<i>alternata</i> .
252	<i>pulchella</i> Müll.	253	<i>Planorbis trivolvis</i> Say.
252	<i>asteriscus</i> Morse.	253	<i>campanulatus</i> Say.
252	<i>chersina</i> Say.	253	<i>bicarlinatus</i> Say.
252	—.	253	<i>parvus</i> Say.
252	<i>Succinea avara</i> Say.	253	<i>deflectus</i> Say.
252	<i>ovalis</i> Gould.	253	<i>Amnicola porata</i> Say.
252	<i>obliqua</i> Say.	253	<i>Valvata tricarinata</i> Say.
252	<i>Achatina lubrica</i> Müll.	253	<i>humeralis</i> Say.
252	<i>Bulimus harpa</i> Say.	253	<i>sincera</i> Say.
252	<i>Vitrina pellucida</i> Dr. [Gld.	253	<i>Fusus scalariformis</i> Gould.
252	<i>Pupa (Vertigo) simplex</i>	253	<i>gracilis</i> Alder.
252	<i>Physa heterostrophæ</i> Say.	253	<i>tornatus</i> Gould.
252	<i>aurea</i> Lea.	253	<i>decemcostatus</i> Say.
252	<i>elongata</i> Say.	253	<i>rufus</i> Gould.
252	<i>ancillaria</i> Say.	253	<i>Bamffius</i> Flem.
252	<i>marginata</i> Say.	253	<i>Bela cancellata</i> M. & A.
252	<i>Limnæa stagnalis</i> Linn.	253	<i>Pleurotoma bicarinata</i> ? Couth.
252	<i>caperata</i> Say.		
252	<i>umbrosa</i> Say.	253	<i>Buccinum undatum</i> L.

Page.		Page.	
253	<i>Buccinum Donovanii</i> Gray.	254	<i>Solen ensis</i> Linn.
253	<i>Nassa trivittata</i> Say.	254	<i>Tellina proxima</i> Brown.
253	<i>obsoleta</i> Say.	254	<i>Grœnlandica</i> Beck.
253	<i>Purpura lapillus</i> Lam.	254	<i>Mactra ovalis</i> Gould.
253	<i>Trichotropis borealis</i> Sowb.	254	<i>Mesodesma arctatum</i> Gld.
253	<i>Velutina hallotoides</i> Müll.	254	<i>Venus gemma</i> Totten.
253	<i>Lamellaria perspicua</i> Loven.	254	<i>Aphrodite Grœnlandica</i> St.
253	<i>Natica heros</i> Say.	254	<i>Cardium Islandicum</i> Linn.
	<i>N. ampullaria</i> Lam.	254	<i>Cardita borealis</i> Conr.
253	<i>clausa</i> Br. & Sowb.	254	<i>Astarte sulcata</i> Costa.
253	<i>triseriata</i> Say.	254	<i>elliptica</i> Brown.
253	<i>flava</i> Gould?	254	<i>compressa</i> Mont.
253	<i>helicoides</i> Johnston.	254	<i>Lucina flexuosa</i> Gould.
253	<i>Chemnitzia</i> ———.	254	<i>Lima subauriculata</i> Mont.
253	<i>Aphorhais occidentalis</i>	254	<i>Mytilus edulis</i> Linn.
253	<i>Rissoa minuta</i> St. [Gould.	255	<i>Modiola discors</i> Linn.
253	<i>Lacuna vineta</i> Turt.	255	<i>plicatula</i> Lam.
253	<i>Littorina littoralis</i> F. & H.	255	<i>glandula</i> Totten.
	<i>L. palliata</i> Gould.	255	<i>pectinula</i> Gould.
254	<i>rudis</i> Gould.	255	<i>nexa</i> Gould.
	<i>L. tenebrosa</i> Gould.	255	<i>Nucula myalis</i> Couth.
254	<i>Margarita cinerea</i> Gould.	255	<i>tenuis</i> Turt.
254	<i>undulata</i> Sowb.	255	<i>Pecten Magellanicus</i> Lam.
254	<i>helicina</i> Müll.	255	<i>Islandicus</i> Müll.
254	<i>Skenea costulata</i> F. & H.	255	<i>Anomia ephippium</i> Linn.
254	<i>Diadora Noachina</i> Gray.	255	<i>Unio complanatus</i> Lea.
254	<i>Crepidula fornicata</i> Lam.	255	<i>Margaritana arcuata</i> Barnes.
254	<i>Acmaea testudinalis</i> Hanl.	255	<i>Anodonta subcylindracea</i>
254	<i>cœca</i> .	255	———— [Lea.
254	<i>Chiton marmoreus</i> Fabr.	255	<i>edentula</i> Say.
254	<i>Pholas crispata</i> Linn.	255	<i>fragilis</i> Lam.
254	<i>Saxicava rugosa</i> Lam.	255	<i>implicata</i> Say.
254	<i>Mya arenaria</i> Linn.	255	<i>Cyclas similis</i> Say.
254	<i>truncata</i> Linn.	255	<i>dubia</i> ? Say.
254	<i>Glycimeris siliqua</i> Lam.	255	————.
254	<i>Osteodesma hyalina</i> Couth.	255	<i>Hippothyris psittacea</i> King.
254	<i>Machæra costata</i> Gould.		

Russell.—Retrospect of some of the Shells found in Essex County: by Rev. JOHN LEWIS RUSSELL. (From Journal of the Essex County Natural History Society. Third and last number. Salem, Mass., 1852.)

[No descriptions are given.—W. G. B.]

Page.		Page.	
110	<i>Anodon fluviatilis</i> Lea.	112	<i>Mesodesma arctata</i> .
110	<i>implicatus</i> Say.	112	<i>Modiola discrepans</i> Mont.
111	<i>Astarte castanea</i> Say.	112	<i>modiolus</i> Turt.
111	<i>Anomia ephippium</i> Linn.	112	<i>plicatula</i> Lam.
111	<i>Ancylus rivularis</i> Say.	112	<i>Mytilus edulis</i> Linn.
111	<i>Auricula bidentata</i> .		<i>M. pellucidus</i> Penn.
111	<i>Buccinum obsoletum</i> Ad.	112	<i>pellucidus</i> .
111	<i>plicosum</i> Mke.	112	<i>Mya arenaria</i> Linn.
111	<i>trivittatum</i> Ad.	112	<i>Natica clausa</i> Br. & Sowb.
111	<i>undatum</i> Linn.	112	<i>heros</i> Say.
111	<i>Bulla triticea</i> Couth.	112	<i>triseriata</i> Say.
111	<i>Cancellaria Couthouyi</i> Jay.	112	<i>Nucula limatula</i> Say.
111	<i>Cardium pinnatum</i> Conr.	112	<i>minuta</i> Turt.
111	<i>Crepidula fornicata</i> Lam.	112	<i>myalis</i> Couth.
111	<i>plana</i> Say.	112	<i>Pandora trilineata</i> Say.
111	<i>Chiton fulminatus</i> Couth.	112	<i>Pecten magellanicus</i> Lam.
111	<i>Cingula minuta</i> .	112	<i>Petricola pholadiformis</i>
111	<i>Cochlodesma Leana</i> Conr.	112	<i>Pholas crispata</i> Linn. [Lam.
111	<i>Cumingia tellinoides</i> Conr.		<i>P. lamellata</i> Turt.
111	<i>Cyprina islandica</i> Lam.	112	<i>Purpura lapillus</i> Lam.
111	<i>Fusus decemcostatus</i> Say.		<i>P. imbricata</i> .
111	<i>islandicus</i> Mart.	112	<i>Pyramis striatula</i> Couth.
111	<i>harpularius</i> Couth.	112	<i>Rostellaria occidentalis</i>
111	<i>Glycimeris siliqua</i> Lam.		Beck.
111	<i>Lacuna vineta</i> .	112	<i>Sanguinolaria fusca</i> Conr.
111	<i>Littorina palliata</i> .	112	<i>sordida</i> Couth.
111	<i>rudis</i> .	112	<i>Saxicava distorta</i> Say.
111	<i>tenebrosa</i> .	112	<i>Scalaria Grænlantica</i> Chem.
111	<i>Lottia alveus</i> .	112	<i>Solen ensis</i> Linn.
111	<i>testudinalis</i> .	113	<i>Solemya velum</i> Say.
111	<i>Machæra costata</i> .	113	<i>Thracia Conradi</i> Couth.
111	<i>Mactra solidissima</i> Chemn.	113	<i>Tellina polita</i> Say.
111	<i>Margarita arctica</i> Leach.	113	<i>tenera</i> Say.
111	<i>cinerea</i> .	113	<i>Terebratula caput-ser-</i>
112	<i>obscura</i> .		<i>pentis</i> Lam.
112	<i>undulata</i> Sowb.	113	<i>Teredo navalis</i> Linn.

Page.		Page.	
113	<i>Trichotropis borealis</i> Sowb.	113	<i>Venus gemma</i> Totten.
	<i>T. costellatus</i> Couth.	113	<i>mercenaria</i> Linn.
113	<i>Turritella erosa</i> Couth.	113	<i>Velutina lævigata</i> .
113	<i>Unio complanatus</i> Lea.		<i>V. rupicola</i> Conr. not
113	<i>nasutus</i> Say.		<i>Oxynoe glabra</i> .
113	<i>radiatus</i> Barnes.		

Russell.—Conspectus of Shells found in Essex County, &c.:
by J. H. RUSSELL (From same as last, p. 126.)

[No descriptions are given.—W. G. B.]

Page.		Page.	
127	<i>Adeorbis costulata</i> St.	129	var. <i>pygmæus</i> Gould.
127	<i>Amicula vestita</i> St.		<i>Trytonium pygmæum</i> St.
	<i>Chiton Emersonii</i> Couth.	129	<i>Helix albolabris</i> Gould.
127	<i>Ancylus fuscus</i> Ad.	129	<i>alternata</i> Gould.
127	<i>Anodon implicata</i> Gould.	129	<i>arborea</i> Gould.
128	<i>Anomia ephippium</i> Linn.	129	<i>electrina</i> Gould.
128	var. <i>aculeata</i> .	129	<i>exigua</i> Gould.
128	<i>squamula</i> .	129	<i>hortensis</i> Gould.
128	<i>Astarte castanea</i> Gould.		<i>Helix subglobosa</i> Binney.
128	<i>quadrans</i> Gould.	129	<i>indentata</i> Gould.
128	<i>sulcata</i> Gould.	129	<i>labyrinthica</i> Gould.
128	<i>Buccinum plicosum</i> Gould.	129	<i>lineata</i> Gould.
128	<i>undatum</i> Linn.	129	<i>minuscule</i> Gould.
128	<i>Bulimus lubricus</i> Gould.	129	<i>pulchella</i> Gould.
128	<i>Bulla punctostriata</i> St.	129	<i>chersina</i> Gould.
128	<i>triticea</i> Gould.	129	—.
128	<i>Cemoria Noachina</i> Gould.	130	<i>Kellia rubra</i> Gould.
128	<i>Chiton albus</i> Gould.	130	<i>Leda limatula</i> St.
128	<i>marginatus</i> Gould.	130	<i>myalis</i> St.
128	<i>ruber</i> Gould.		<i>Nucula myalis</i> Gould.
128	<i>Cingula minuta</i> Gould.	130	<i>sapotilla</i> St.
128	<i>Cochlodesma Leana</i> Couth.		<i>Nucula sapotilla</i> Gould.
	<i>Anatina Leana</i> Conr.	130	<i>Ancylus fuscus</i> Gould.
128	<i>Columbella Gouldiana</i> ? St.	130	<i>Limnæa columella</i> Gould.
129	<i>Cumingia tellinoides</i> Gould.	130	<i>elodes</i> Gould.
129	<i>Cyclas dubia</i> Gould.	130	<i>macrostoma</i> Gould.
129	<i>partumeia</i> Gould.	130	<i>modicellus</i> Gould.
129	<i>Dentalium dentale</i> Gould.	130	<i>umbilicata</i> Gould.
129	<i>Fusus decemcostatus</i> Gld.	130	<i>Pianorbis armigerus</i> Gould.
129	<i>harpularius</i> Gould.	130	<i>bicarinatus</i> Gould.
129	<i>islandicus</i> Gould.	130	<i>campanulatus</i> Gould.
	<i>Tritonium islandicum</i>	130	<i>deflectus</i> Gould.
	Loven.	130	<i>exacutus</i> Gould.

Page.		Page.	
130	<i>Planorbis elevatus</i> Gould.	131	<i>Pecten Magellanicus</i> Gld.
130	<i>hirsutus</i> Gould.	131	<i>Philine formosa</i> St.
130	<i>lentus</i> Gould.	131	<i>Pleurotoma bicarinata</i> Gld.
130	<i>Physa ancillaria</i> Gould.	132	<i>violacea</i> St.
130	<i>elongata</i> Gould.	132	<i>Pupa curvidens</i> Gould.
130	<i>heterostropha</i> Gould.	132	<i>Rissoa eburnea</i> St.
130	<i>Lucina radula</i> Gould.	132	<i>multilineata</i> St.
131	<i>Mactra lateralis</i> Gould.	132	<i>pelagica</i> St. [Migh.
131	<i>Margarita arctica</i> Gould.		<i>Cingula semicostata</i>
131	<i>argentata</i> Gould.	132	<i>Scalaria Grœnlandica</i> Gld.
131	<i>obscura</i> Gould.	132	<i>Novangliæ</i> Couth.
131	<i>undulata</i> Gould.	132	<i>Solemya velum</i> Gould.
131	<i>Menestho albula</i> St.	132	<i>Solen ensis</i> Linn.
	<i>Pyramis striatula</i> Couth.	132	<i>Succinea campestris</i> Gould.
131	<i>Mesodesma arcata</i> Gould.	132	<i>ovalis</i> Gould.
131	<i>Nassa trivittata</i> Say.	132	<i>Terebratula septen-</i>
	<i>Buccinum trivittatum</i>		<i>trionalis</i> Gould.
131	<i>Natica flava</i> Gould. [Gould.	132	<i>Teredo dilatata</i> St.
131	<i>immaculata</i> Gould.	132	<i>Thracia truncata</i> Migh.
131	<i>pusilla</i> Gould. [Migh.	133	<i>Turritella acicula</i> St.
131	<i>Nucula delphinodonta</i>	133	<i>areolata</i> St.
131	<i>Osteodesma Hyalina</i> Gould.	133	<i>Velutina haliotoides</i> Möll.
131	<i>Paludina decisa</i> Gould.	133	<i>zonata</i> Gould.
131	<i>Pandora trilineata</i> Gould.		

Shumard.—A Catalogue of the fluviatile Shells belonging to the family of Naiades of Jefferson County, Kentucky: by B. F. SHUMARD, M. D., Louisville, Kentucky. (From the Naturalist, and Journal of Agriculture, Horticulture, Education and Literature, &c., at Franklin College, Tennessee, vol. i, No. 3. March, 1846.)

[The title of this catalogue was given by me on p. 427. Since the printing of that page I have received the work, through the kindness of J. G. Anthony, Esq. No descriptions are given.—W. G. B.]

Page.		Page.	
105	<i>Unio alatus</i> Say.	105	<i>Unio bullatus</i> Raf.
	<i>U. megapterus</i> Raf.		<i>U. verrucosus albus</i> Say.
105	<i>asperimus</i> Lea.		<i>pustulosus</i> Lea.
	<i>U. lachrymosus</i> Lea.		<i>Dorfeuillanus</i> Lea.
	<i>quadrulus</i> Say.		<i>prasinus</i> Contr.
105	<i>anodontoides</i> Lea.	105	<i>cardium</i> Raf.
	<i>U. teres</i> Raf.		<i>U. subovatus</i> Lea.
	<i>teres</i> Contr.		<i>ventricosus</i> Barnes.

Page.		Page.	
105	Unio cicatricosus Say.	105	Unio rubiginosus Lea.
	<i>U. varicosus</i> Lea.	105	rectus Lam.
105	cyphius Raf.		<i>U. praelongus</i> Bar.
	<i>U. Esopus</i> Green.	106	cornutus Bar.
105	clavus Lam.		<i>U. reflexus</i> Raf.
	<i>U. scalenia</i> Raf.	106	dilatatus Raf. & Conr.
	<i>modioliformis</i> Say.		<i>U. gibbosus</i> Bar.
105	crassus Say.		<i>arctior</i> Lea.
	<i>U. ellipticus</i> Bar.		<i>nasutus</i> Lam.
	<i>carinatus</i> Bar.	106	ebenus Lea.
105	cylindricus Say.		<i>U. mytiloides</i> Conr.
	<i>U. solenoides</i> Raf.	106	elegans Lea.
	<i>naviformis</i> Lam.	106	foliatus Hild.
105	crassidens Lam.		<i>U. flexuosus</i> Raf.
	<i>U. cuneatus</i> Bar.	106	fabalis Lea.
	<i>niger</i> ? Raf.		<i>U. lapillus</i> Say.
	<i>soleniformis</i> Lea.	106	gracilis Bar.
105	multiplicatus Lea.		<i>U. fragilis</i> Swains.
	<i>U. heros</i> Say.	106	glans Lea.
	<i>undulatus</i> Say.	106	iris Lea.
105	nodulatus Raf.		<i>U. subrostratus</i> Bar.
	<i>U. pustulatus</i> Lea.	106	irroratus Lea.
105	occidens Lea.		<i>U. verrucosus albus</i> Hild.
	<i>U. ventricosus</i> Say.	106	metanever Lea.
105	Ohioensis Raf.		<i>U. nodosus</i> Barnes.
	<i>U. laevissimus</i> Lea.	106	monodontus Say.
105	ovatus Say.		<i>U. latissimus</i> Raf.
	<i>U. globosus</i> Lea.	106	siliquoides Bar.
	<i>capax</i> Green.		<i>U. inflatus</i> Bar.
105	olivarius Raf.	106	pyramidatus Lea.
	<i>U. ellipsis</i> Lea.	106	subrotundus Raf.
105	orbiculatus Hild.		<i>U. circulus</i> Lea.
	<i>U. abruptus</i> Say.	106	sulcatus Lea.
	<i>crassus</i> Conr.		<i>U. ridibundus</i> Say.
105	phaseolus Hild.	106	securis Lea.
	<i>U. planulatus</i> Lea.		<i>U. depressa</i> Raf.
	<i>cuneatus</i> Bar.	106	tenuissimus Lea.
105	perplexus Lea.		<i>U. velum</i> Say.
	<i>U. gibbosus</i> Conr.		<i>Anodonta purpurascens</i>
105	Sayii Ward.	106	torsus Raf. [Swains.
105	plicatus Less.	106	triangularis Bar.
	<i>U. variplicata</i> Lam.		<i>U. formosus</i> Lea.
	<i>Peruvianus</i> Lam.		<i>cuneatus</i> Swains.
	<i>costatus</i> Raf.	106	tuberculatus Bar.
105	parvus Bar.		

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106	Unio verrucosus Bar.	106	Anodonta plana Lea.
	<i>U. tuberculatus</i> Raf.		<i>A. declivis</i> Conr.
	<i>verrucosus purpureus</i>	106	Ferussaciana Lea.
106	sig-sag Lea. [Hild.	106	exilis Lea.
106	Alasmodonta complanata		<i>A. salmonea</i> Lea.
	[Bar.	106	imbecillis Say.
106	calceola Lea.		<i>A. incerta</i> Lea.
	<i>Margaritana deltoidea</i>	106	lata Raf.
106	rugosa Bar. [Lea.		<i>Unio dehiscens</i> Say.
	<i>A. abducta</i> Say.		<i>A. oriens</i> Lea.
106	Anodonta grandis Say.		
	<i>A. corpulenta</i> Cooper.		

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From the Proceedings of the Boston Society of Natural History, 543.

WEINLAND, D. F.

From the Proceedings of the Boston Society of Natural History, 370, 371.

WESTERN ACADEMY OF NATURAL SCIENCES.

Catalogue of Unios, &c., 156.

WHEATLEY, C. M.

Catalogue of the Shells of the United States, &c., 129.

WHITTEMORE, T. J.

From Silliman's American Journal of Science, 73, 319.

From the Proceedings of the Boston Society of Natural History, 365,
368, 371.

WOOD, W.

New England's Prospect, &c., 426.

WYATT, T.

A Manual of Conchology, 324.

A Synopsis of Natural History, 607.

WYMAN, J.

From the Proceedings of the Boston Society of Natural History, 359.

From the Boston Journal of Natural History, 353.

E R R A T A .

The following errata and addenda should be entered on their respective pages of the Bibliography:—

Page 1. The folio of the left hand column refers to Rafinesque's extra copies of the "Monographie." Page 25 corresponds with p. 291 of the original paper in the "Annales."

Page 4, line 14. After *Tremisia patelloides* read *Notrema*.

" 4, line 25. Add See also page 546.

" 5, line 3 from bottom, add *Decurambis litterata* Raf.

" 8, line 11. The paper of Coates will also be found in the Ann. of Phil. x, 385; Bull. Sc. Nat. vii, 259 (1826); Forr. Not. Bd. 12, 295 (1826).

Page 40, line 10. *Astarte castanea* in the first edition is given as a synonym of *Crassina Danmoniensis*, omitted in this edition.

Page 53. Note. See also p. 419.

" 64. For Couthouy's paper, see also p. 487.

" 64. For Jay's paper, see also p. 486.

" 74. The date is probably 1842.

" 123, line 3 from bottom of left hand column, add p. 40 *Unio crieridens* Lea.

Page 129. The first edition of Wheatley's Catalogue was published in 1842.

Page 230. For Lea's Synopsis, see also p. 52.

" 254. The Land Shells of Say were published separately in 1856 with the title of "Descriptions of Terrestrial Shells of North America."

Page 262, line 1, for September read May.

" 274, line 4, add See also p. 605.

" 319, line 1, for W. Whittemore read T. W. Whittemore.

" 319. Agassiz and Gould's Principles were republished in 1851.

" 327. For Conrad's paper, see also p. 404.

" 327. For Leidy's paper, see also Silliman's Am. Journ. [2] iii, 434.

" 333. Date of Haldeman's Monograph is said to be 1847.

" 334, after line 36, add *L. solida* Lea = *Melania*.

" 339, line 3, for November read July.

" 341, line 2 from bottom, add See also note on p. 101.

" 348, line 28, for 1841 read 1840.

" 350, line 22, for 108 read 308.

" 357, for foreign species of Bost. Proc. see p. 530.

" 359, line 15, for 137 read 138.

" 361, after line 9, add ii, 160 *Crepidula nummaria* Gould. Classet.

" 371, line 10. A figure of *Cochliolepis* is given.

" 371, line 21, for September read November.

Page 371. For the foreign species in the Proc. Phila. Acad., see p. 551.

" 372, line 26, for November, 1842, read December, 1842.

" 372, line 27, for March, 1853, read March, 1843.

" 373. For Leidy's paper first quoted, see also Forr. Not. 3 Reihe, Bd. 4, No. 68, 1847, p. 24, and Journ. de Conch. 1, 1850, p. 34.

Page 374, line 32, for 58 read 57.

" 386. For foreign species in Phila. Proc., see p. 556.

" 404, line 2, add see also p. 560.

" 404, line last, add see also p. 327.

" 405, line 2, add see also p. 520.

" 417, line 8, add see also p. 504.

" 422, line 2, add see also p. 525.

" 437, line 4, add see also p. 631.

" 437, line 4, for 1856 read 1846.

" 437. Cooper's paper should not have been quoted here, its date being 1860.

Page 437, line 26, add Banks of the Ohio.

" 439, line 7, for 1841 read 1851.

" 439, line 6, add see also p. 547.

" 436, line 12 from bottom, see also Faunus von Gistel. Bd. 1, Hft. 1, 1837, p. 42.

Page 451, line 8. The title in the Transactions is "Descriptions of new species of the family Unionidae."

Page 477, line 26, for Crypogenia read Cyprogenia.

" 486, line 13 from bottom, add see p. 64.

" 490, line 4, add Adams.

" 499, line 24, for 100 read 101.

" 500, line 21, for 187 read 189.

" 501, line 13. The quotations from p. 215 to 233 on the next page are by Bland.

Page 502, line 11 from bottom. The quotations from p. 233 are to be attributed to Adams.

Page 502, line 3 from bottom. The quotations are by Bland.

" 503. The first title is by Adams.

" 525, line 2, add see also p. 422.

" 526, line 2, add see also p. 343.

" 530, line 2, add see also p. 357.

" 531, lines 6, 7, 8, for 160 read 161; their date is also May, 1844.

" 550, line 14 from bottom, after Vol. ii, add Part 2.

" 551, line 10 from bottom, add see also p. 371.

" 552, line 16, add see also Proc. vi, 435. Nov. 1853.

" 552, line 26, add see also p. 606 of Bibliography.

" 556, line 3 from bottom, add see also p. 386.

" 565, before line 13 from bottom, add No. ix, May, 1851.

" 581. Redfield's paper, add June, 1852.

" 583, before page 297, add July, 1852.

Smithsonian institution.

SMITHSONIAN MISCELLANEOUS COLLECTIONS.

CATALOGUE

OF

PUBLICATIONS

OF THE

SMITHSONIAN INSTITUTION.

CORRECTED TO JUNE, 1862.



WASHINGTON:
SMITHSONIAN INSTITUTION.

JUNE, 1862.

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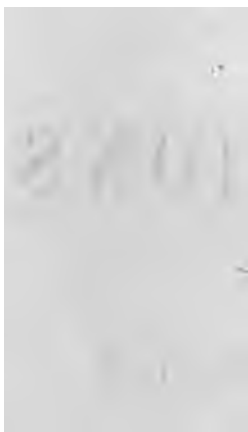


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ADVERTISEMENT.

THE present catalogue is intended to embrace all the articles published by the Smithsonian Institution since its organization in 1846. For the first few years nothing was issued but pamphlets explanatory of the plan of the Institution, and brief annual reports of the proceedings of the Regents, and it was not until after 1849 that the following regular series were established, viz:—

1st. A quarto series entitled "Smithsonian Contributions to Knowledge," issued in volumes, each embracing one or more separate articles.

2d. An octavo series, entitled "Smithsonian Miscellaneous Collections."

3d. Another octavo series, consisting of the Annual Reports of the Institution to Congress, called "Smithsonian Reports," and printed at the expense of the government.

The Smithsonian Contributions to Knowledge include memoirs embracing the records of extended original investigations and researches resulting in what are believed to be new truths, and constituting positive additions to the sum of human knowledge. The series of Smithsonian Miscellaneous Collections is designed to contain reports on the present state of our knowledge of particular branches of science; instructions for collecting and digesting facts and materials for research; lists and synopses of species of the organic and inorganic world; museum catalogues; reports of explorations; aids to bibliographical investigations, etc., generally prepared at the express request of the Institution, and at its expense. The position of a work in one or the other of these two series will sometimes depend upon whether the required illustrations can be presented more conveniently in the quarto or the octavo form.

The Annual Reports are presented to Congress, and printed at its expense, copies being given to the Institution. They consist of the reports of the Secretary to the Board of Regents of the operations and condition of the Institution; the reports of committees of the Board; abstracts of lectures delivered before the Institution; extracts from correspondence; original or translated articles relating to the history and progress of science, etc. Over the typography and general mechanical execution, as well as the number of copies, of the Smithsonian Annual Reports the Institution has no control.

In the first experiments of the Smithsonian system of publication, the proper magnitude of the editions necessary to meet the immediate and future demand could not be accurately ascertained. The number of copies of the Contributions then fixed upon, has since been found inadequate, although it was larger than that usually issued by other institutions. The edition has, therefore, been augmented, until at the present time 1000 copies of each article are set aside to be combined into volumes, and an extra number, varying with the probable demand, from 500 to 1500, struck off for separate distribution, and for sale.

Each article is complete in itself, with separate paging, title, and index, and without any necessary relationship to others combined with it in the same volume.

Of the first volume of Smithsonian Contributions, the edition, for reasons already explained, is less than of the succeeding ones, so that complete sets cannot now be always furnished. A considerable number of the earlier articles in octavo, also, are out of print, and cannot be furnished in series for the same reason; they are, therefore, necessarily excluded from the "Smithsonian Miscellaneous Collections." Most of such works, however, have been or will be reproduced in later and improved editions.

The regular series of volumes of Smithsonian Annual Reports begins with 1853, those for previous years being pamphlets now out of print. The essential portion of their contents is, however, given in the above-mentioned volume for 1853, so as to present a complete summary of the history of operations of the Institution from its commencement to the present time.

The rules governing the distribution of the Smithsonian publications are appended. To enable institutions not coming within their provisos, as well as individuals, to procure copies of such as

may be desired, a small number is set aside, and sold by the Institution, or its agents, at the prices affixed, which are intended merely to cover the actual cost of their publication. They may be obtained either directly from the Institution or of its general agents, Messrs. D. Appleton & Co., New York.

JOSEPH HENRY,

Secretary, S. I.

SMITHSONIAN INSTITUTION,
WASHINGTON, June, 1862.

RULES OF DISTRIBUTION.

The following rules have been adopted for the distribution of the series of the Smithsonian Contributions, and Miscellaneous Collections:—

1. They are to be presented to all learned societies of the first class which publish Transactions, and give copies of these, in exchange, to the Institution.

2. To all foreign libraries of the first class, provided they give in exchange their catalogues and other publications, or an equivalent from their duplicate volumes.

3. To all the colleges in actual operation in this country, provided they furnish, in return, meteorological observations, catalogues of their libraries and of their students, and all other publications issued by them relative to their organization and history.

4. To all States and Territories, provided they give, in return, copies of all documents published under their authority.

5. To all incorporated public libraries in this country, not included in any of the foregoing classes, now containing more than 10,000 volumes; and to smaller libraries, where a whole State or large district would be otherwise unsupplied.

Institutions devoted exclusively to the promotion of particular branches of knowledge, receive such articles published by the Institution as relate to their objects. Portions of the series are also given to institutions of lesser grade not entitled to the full series, and also to the meteorological correspondents of the Smithsonian Institution.



PUBLICATIONS
OF THE
SMITHSONIAN INSTITUTION,

WASHINGTON, D. C.

CORRECTED TO JUNE, 1862.

PART I.

PRINTED BY THE INSTITUTION.

A. ARRANGED IN SERIES.

CONTRIBUTIONS TO KNOWLEDGE,

QUARTO SERIES.

1. Smithsonian Contributions to Knowledge 1848. Vol. I, 4to. pp. 346, with 48 plates and 207 wood-cuts. (Out of print.)

Contains: (1.) **Squier & Davis**, Ancient Mon. Miss. Valley.

26. Smithsonian Contributions to Knowledge. 1851. Vol. II, 4to. pp. 464, and 24 plates. Price \$6.

Contains: (3.) **Walker**, Researches relative to Neptune. (12.) **Lieber**, Laura Bridgeman; (20.) **Bailey**, Soundings U. S. C. Survey; (13.) **Ellet**, Phys. Geog. Miss. Valley; (14.) **Gibbes**, Mosasaurus; (16.) **Agassiz**, Class. Insects; (17.) **Hare**, Expl. Nitre; (23.) **Bailey**, Microsc. Obs. in S. States; (15.) **Squier**, Aboriginal Mon. New York.

The Appendix embraces: (4*) **Walker**, Eph. Neptune, 1795-1849; (6.) Do. for 1850; (7.) Do. for 1851; (11.) **Downes**, Occultations for 1851.

38. Smithsonian Contributions to Knowledge. 1852. Vol. III, 4to. pp. 564, and 35 plates. Price \$6.

Contains: (35.) **Locke**, Terrest. Magnetism; (36.) **Secchi**, Electric Rheometry; (30.) **Girard**, N. Am. Côt-

toids; (32.) **Harvey**, Marine Algæ N. A.; (22.) **Gray**, Plantæ Wrightianæ, I; (33.) **Davis**, Flood Tide; (37.) **Whittlesey**, Ancient Works in Ohio.

The Appendix embraces: (24.) **Walker**, Eph. Neptune, 1852; (29.) **Downes**, Occultations, 1852.

39. Smithsonian Contributions to Knowledge. 1852. Vol. IV, 4to. pp. 426. Price \$6.

Contains: (40.) **Riggs**, Dakota Grammar and Dictionary.

55. Smithsonian Contributions to Knowledge. 1853. Vol. V, 4to. pp. 538, and 45 plates. Price \$6.

Contains: (44.) **Leidy**, Fauna and Flora of Animals; (41.) **Leidy**, Fossil Ox; (45.) **Wyman**, Rana pipiens; (43.) **Harvey**, Marine Algæ N. A. II; (42.) **Gray**, Plantæ Wrightianæ, II.

56. Smithsonian Contributions to Knowledge. 1854. Vol. VI, 4to. pp. 476, and 53 plates. Price \$6.

Contains: (46.) **Torrey**, Plantæ Fremontianæ; (60.) **Torrey**, Batis maritima; (61.) **Torrey**, Darlingtonia Californica; (50.) **Stimpson**, Marine Invert. Grand Manan; (52.) **Coffin**, Winds of Northern Hemisphere; (58.) **Leidy**, Ancient Fauna Nebraska.

The Appendix embraces: (54.) **Downes**, Occultations, 1853.

76. Smithsonian Contributions to Knowledge. 1855. Vol. VII, 4to. pp. 252, 70 wood-cuts, and 74 plates. Price \$6.

Contains: (59.) **Chappelsmith**, Tornado; (63.) **Bailey**, New Microsc. Organisms; (70.) **Lapham**, Antiquities Wisconsin; (72.) **Leidy**, Extinct Sloths N. A.

The Appendix embraces: (73.) Publications Learned Societies, I.

78. Smithsonian Contributions to Knowledge. 1856. Vol. VIII, 4to. pp. 556, 9 plates, and 27 wood-cuts. Price \$6.

Contains: (71.) **Haven**, Archæology U. S.; (81.) **Olmsted**, Recent Period of Aurora; (80.) **Alvord**, Tangencies Circles and Spheres; (82.) **Jones**, Chem. and Phys. Res.

The Appendix embraces: (84.) **Force**, Record of Auroras; (85.) Publications Learned Societies, II.

92. Smithsonian Contributions to Knowledge. 1857. Vol. IX, 4to. pp. 482, and 22 plates. Price \$6.

Contains: (83.) **Meech**, Intensity Sun's Heat and Light. (90.) **Hitchcock**, Surface Geology; (86.) **Mayer**, Obs. Mex. Archæology; (88.) **Gibbs & Genth**, Ammonia-Cobalt Bases.

The Appendix embraces: (79.) **Runkle**, New Planetary Tables; (94.) **Runkle**, Asteroid Supplement to the same.

99. Smithsonian Contributions to Knowledge. 1858. Vol. X, 4to. pp. 462, and 17 plates. Price \$6.

Contains: (95.) **Harvey**, Marine Algæ N. A., III.; (97.) **Kane**, Magnet. Obs. Arctic Seas; (98.) **Bowen**, Yoruba Language.

111. Smithsonian Contributions to Knowledge. 1859. Vol. XI, 4to. pp. 506, and 23 plates. Price \$6.

Contains: (89.) **Brewer**, N. A. Oology, I.; (100.) **Gilliss**, Solar Eclipse Peru; (113.) **Bache**, Discussion Girard Coll. Obs. I.; (104.) **Kane**, Met. Obs. Arctic Seas; (126.) **Leconte**, Coleoptera Kansas and N. M.; (114.) **Sonntag**, Magnet. Obs. Mexico; (127.) **Loomis**, Storms in Europe and Am.

112. Smithsonian Contributions to Knowledge. 1860. Vol. XII, pp. 540, 3 plates, and 12 wood-cuts. Price \$6.

Contains: (129.) **Kane**, Astron. Obs. Arctic Seas; (119.) **Whittlesey**, Change of Level in Lakes; (103.) **Caswell**, Met. Obs. Providence; (131.) **Smith**, Met. Obs. Arkansas; (135.) **Mitchell**, Venom of Rattlesnake.

150. Smithsonian Contributions to Knowledge. Vol. XIII. (In press.)

Note.—The twelve volumes already published and distributed of the Smithsonian Contributions to Knowledge, include, with few exceptions, all the quarto memoirs printed directly by the Institution. Of those not enumerated above, Nos. 130. **Kane**, Tidal Observations in the Arctic Seas; 146. **M'Clintock**, Meteorological Obs. Arctic Seas; 155. **Whittlesey**, Ancient Mining; and 132, 162. **Bache**, Discussion Girard Coll. Obs. II, will form part of Volume XIII. Of the remainder,—(8.) **Downes**, Occultations for 1848; (9.) Do. for 1849; (10.) Do. for 1850; and (2.) **Owen**, Hints on Public Architecture,—the editions published were too small to incorporate into the series. No. 40*. Dakota Grammar is

an extra edition of portion of No. 40. *Dacota Grammar and Dictionary*; and No. 86. **Harvey**, *Marine Algæ of N. Am.* consists of the three separate parts bound into one.

Nos. 1, 26, 38, 39, 55, 56, 76, 78, 92, 99, 111, 112, 151 refer to the thirteen volumes *Smithsonian Contributions*, containing works separately numbered. Nos. 120. **Hildreth**, *Met. Obs. Ohio*, and 121. **Berlandier**, *Met. Obs. Mexico*, though a long time in preparation, are not yet ready to be printed.

MISCELLANEOUS COLLECTIONS.

OCTAVO SERIES.

122. *Smithsonian Miscellaneous Collections*. 1862. Vol. I, 8vo. pp. 732. Price \$3, paper.

Contains: (19.) *Directions for Meteorological Observations*; (87.) **Coffin**, *Psychrometrical Tables*; and (31.) **Guyot**, *Meteorological and Physical Tables*.

123. *Smithsonian Miscellaneous Collections*. 1862. Vol. II, 8vo. pp. 692. Price \$3.

Contains: (27.) **Booth and Morfit**, *Recent Improvements in Chemical Arts*; (115.) *Proceedings Board Regents Smithsonian Institution in relation to the Electro-magnetic Telegraph*; (53.) **Stanley**, *Catal. Portraits N. Am. Indians*; (108.) **Baird**, *Catalogue of N. Amer. Birds*; (49.) **Baird and Girard**, *Catal. North Am. Reptiles—Serpents*; (128.) *Check List Shells N. A.*; (34.) *Directions for Collecting*; (137.) *Circular to Officers H. B. Co.*; (139.) *Instructions for collecting Nests and Eggs; N. Am. Grasshoppers; and N. Am. Shells*; (138.) **Morgan**, *Circular respecting Relationship*.

124. *Smithsonian Miscellaneous Collections*. Vol. III, 8vo. pp. 766. Price \$3.

Contains: (102.) **Osten Sacken**, *Catalogue Diptera N. A.*; (118.) **Morris**, *Catal. described Lepidoptera N. A.*; (136.) **Le Conte**, *Classif. Coleoptera, I*; (117.) *Catal. Publications of Societies in Smithsonian Library*.

Note.—Of this volume, Nos. 102, 118, and 117 have already been distributed to American institutions, rendering it only necessary to furnish in addition the introductory matter and **Le Conte's Classification of Coleoptera**, as above.

125. Smithsonian Miscellaneous Collections. Vol. IV, 8vo. pp. 752. Price \$3.

Contains: (134.) **Hagen**, Synopsis of N. Am. Neuroptera, and (133.) **Morris**, Synopsis of N. A. Lepidoptera.

158. Smithsonian Miscellaneous Collections. Vol. V, 8vo. (In press.)

This volume will contain of works already printed: (141.) **Loew**, Monographs of Diptera, Part I.; (64.) List of Foreign Correspondents of Smithsonian Institution; and (74.) List of Publications of the Smithsonian Institution, with some others.

Note.—The preceding volumes of "Miscellaneous Collections" include all the octavo works printed by the Smithsonian Institution of which copies enough remain on hand to furnish the entire first class list of distribution. The remaining articles have, however, been already supplied to most of its regular correspondents.

As stated in the introduction, a number of the articles mentioned as out of print have been incorporated in later works included in the Miscellaneous Collections and Annual Reports.

The works coming under the head of "Out of Print" are as follows: (18.) **Gould**, Report on Neptune; (101.) **Hill**, Map of Solar Eclipse; (93.) Smithsonian Meteorological Observations for 1855; (68.) **Mitchell**, Vocabulary of Jargon; (62.) **Melshelmer**, Catalogue of Coleoptera; (48.) **Girard**, American Natural History Bibliography; (25.) **Jewett**, Smithsonian Catalogue System; (A.) Proceedings of Regents, 1846; (B.) Report Committee of Organization; (C.) Digest of Acts of Congress; (D.) Address on laying corner-stone; (E.) Explanation Smithsonian's Bequest; (K.) Correspondence on Memoir of Squier and Davis.

The works which are being prepared, or in press, are so marked, consisting of Nos. 140, 142, 143, 144, 145, 148, 153, 154, 156, 160, 161, 163, 165.

No. 164, Museum Miscellanea, does not form part of the Miscellaneous Collections.

B. SYSTEMATIC LIST OF TITLES.

MATHEMATICS.

80. **Alvord.**—The Tangencies of Circles and of Spheres. By Benjamin Alvord, Major U. S. Army. January, 1856. 4to. pp. 16, and 9 plates. (S. C. VIII.) Price 50 cents.

ASTRONOMY.

8. **Downes.**—Occultations visible in the United States during the year 1848. Computed under the direction of the Smithsonian Institution. By John Downes. 1848. 4to. pp. 12.

9. **Downes.**—Occultations visible in the United States during the year 1849. Computed under the direction, and at the expense of the Smithsonian Institution. By John Downes. 1848. 4to. pp. 24.

10. **Downes.**—Occultations visible in the United States during the year 1850. Computed by John Downes, at the expense of the fund appropriated by Congress for a Nautical Almanac, and published by the Smithsonian Institution. 1849. 4to. pp. 26.

These three papers by Mr. Downes were not published in the series of Contributions.

11. **Downes.**—Occultations visible in the United States during the year 1851. Computed by John Downes, at the expense of the fund appropriated by Congress for the establishment of a Nautical Almanac, and published by the Smithsonian Institution. Oct. 1850. 4to. pp. 26. (S. C. II.) Price 20 cents.

29. **Downes.**—Occultations visible in the United States during the year 1852. Computed by John Downes, at the expense of the fund appropriated by Congress for the establishment of a Nautical Almanac, and published by the Smithsonian Institution. 1852. 4to. pp. 34. (S. C. III.) Price 20 cents.

54. **Downes.**—Occultations of Planets and Stars by the Moon during the year 1853. Computed by John Downes, at the expense of the fund appropriated by Congress for the establishment of a Nautical Almanac, and published by the Smithsonian Institution. 1853. 4to. pp. 36. (S. C. VI.) Price 20 cents.

3. **Walker.**—Researches relative to the Planet Neptune. By Sears C. Walker, Esq. 1850. 4to. pp. 60. (S. C. II.) Price 50 cents.

4. **Walker.**—Ephemeris of Neptune for the Opposition of 1848. By Sears C. Walker, Esq. 1849. 4to. pp. 8.

5. **Walker.**—Ephemeris of the Planet Neptune for the date of the Lalande Observations of May 8 and 10, 1795, and for the Opposition of 1846, '47, '48, and '49. By Sears C. Walker, Esq. April, 1849. 4to. pp. 32. (S. C. II.) Price 20 cents.

6. **Walker.**—Ephemeris of the Planet Neptune for the year 1850. By Sears C. Walker, Esq. April, 1850. 4to. pp. 10. (S. C. II.) Price 10 cents.

7. **Walker.**—Ephemeris of the Planet Neptune for the year 1851. By Sears C. Walker, Esq. Dec. 1850. 4to. pp. 10. (S. C. II.) Price 10 cents.

24. **Walker.**—Ephemeris of the Planet Neptune for the year 1852. By Sears C. Walker, Esq. 1853. 4to. pp. 10. (S. C. III.) Price 10 cents.

18. **Gould.**—On the History of the Discovery of the Planet Neptune. By B. A. Gould, Jr. 1850. 8vo. pp. 56. Price 25 cents.

79. **Runkle.**—New Tables for determining the Values of the Coefficients in the Perturbative Functions of Planetary Motion, which depend upon the ratio of the mean distances. By John D. Runkle, Assistant in the office of the American Ephemeris and Nautical Almanac. Nov. 1856. 4to. pp. 64. (S. C. IX.) Price 50 cents.

94. **Runkle.**—Asteroid Supplement to New Tables for determining the value of $b^{(1)}$ and its derivatives. By John D. Runkle. May, 1857. 4to. pp. 72. (S. C. IX.) Price 50 cents.

100. **Gilliss.**—An Account of the Total Eclipse of the Sun

on September 7, 1858, as observed near Olmos, Peru. By Lieut. J. M. Gilliss. April, 1859. 4to. pp. 24, and one plate. (S. C. XI.) Price 30 cents.

101. **Hill.**—Map of the Solar Eclipse of March 15, 1858. By Rev. Thomas Hill, of Waltham, Mass. 8vo. pp. 8, and one plate. Price 10 cents.

129. **Kane.**—Astronomical Observations in the Arctic Seas. By Elisha Kent Kane, M. D., U. S. N. Made during the second Grinnell Expedition in search of Sir John Franklin, in 1853, 1854, and 1855, at Van Rensselaer Harbor and other points in the vicinity of the Northwest Coast of Greenland. Reduced and discussed by Charles A. Schott, Assistant U. S. Coast Survey. May, 1860. 4to. pp. 56, and 1 plate. (S. C. XII.) Price 75 cents.

33. **Davis.**—The Law of Deposit of the Flood Tide; its Dynamical Action and Office. By Charles Henry Davis, Lieut. U. S. Navy. 1852. 4to. pp. 14. (S. C. III.) Price 10 cents.

130. **Kane.**—Tidal Observations in the Arctic Seas. By Elisha Kent Kane, M. D., U. S. N. Made during the second Grinnell Expedition in search of Sir John Franklin, in 1853, 1854, and 1855. Reduced and discussed by Charles A. Schott, Assistant United States Coast Survey. October, 1860. 4to. pp. 90, and 4 plates. (S. C. XIII.) Price 75 cents.

119. **Whittlesey.**—On Fluctuations of Level in the North American Lakes. By Charles Whittlesey. July, 1860. 4to. pp. 28, and 2 plates. (S. C. XII.) Price 30 cents.

METEOROLOGY.

52. **Coffin.**—On the Winds of the Northern Hemisphere. By Prof. J. H. Coffin. Nov. 1853. 4to. pp. 200, and 13 plates. (S. C. VI.) Price \$2.

127. **Loomis.**—On Certain Storms in Europe and America, December, 1836. By Elias Loomis, LL.D., Professor of Natural Philosophy in the University of the City of New York. February, 1860. 4to. pp. 28, and 13 plates. (S. C. XI.) Price \$1 25.

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G. (First) Report from the Board of Regents submitted to Congress, of the operations, expenditures, and condition of the Smithsonian Institution. (During the year 1846.) Read and ordered to be printed, March 3, 1847. Senate Doc. 211; 29th Congress, 2d Session. 1847. 8vo. pp. 38. (Out of print.)

H. Second Report of the Board of Regents of the Smithsonian Institution, showing the operations, expenditures, and condition of the Institution during the year 1847. January 6, 1848, read and ordered to be printed. 30th Congress, 1st Session. Senate Miscellaneous No. 23. 1848. 8vo. pp. 208. (Out of print.)

I. Third Annual Report of the Board of Regents of the Smithsonian Institution to the Senate and House of Representatives, showing the operations, expenditures, and condition of the Institution during the year 1848. February 19, 1849, laid upon the table and ordered to be printed. 30th Congress, 2d Session. H. R. Miscellaneous No. 48. 1849. 8vo. pp. 64. (Out of print.)

21. Fourth Annual Report of the Board of Regents, &c., during the year 1849. July 29, 1850, read, and July 30, 1850, ordered to be printed. 31st Congress, 1st Session. Senate Miscellaneous No. 120. 1850. 8vo. pp. 208. (Out of print.)

28. Fifth Annual Report of the Board of Regents, &c., during the year 1850. March 1, 1851, read; March 7, 1851, ordered to be printed. Special Session. March, 1851. Senate Miscellaneous No. 1. 1851. 8vo. pp. 326. (Out of print.)

51. Sixth Annual Report of the Board of Regents, &c., during

the year 1851, and the proceedings of the Board of Regents up to date. August 20, 1852, ordered to lie on the table, and be printed. 32d Congress, 1st Session. Senate Miscellaneous No. 108. 1852. 8vo. pp. 105. (Out of print.)

57. Seventh Annual Report of the Board of Regents, &c., during the year 1852, and the proceedings, &c. March 1, 1853, ordered to lie on the table, and be printed. 32d Congress, 2d Session. Senate Miscellaneous No. 53. 1853. 8vo. pp. 96. (Out of print.)

67. Eighth Annual Report of the Board of Regents of the Smithsonian Institution, showing the operations, expenditures, and condition of the Institution up to January 1, 1854, and the proceedings of the Board up to July 8, 1855. August 1, 1854, laid on the table, and ordered to be printed. 33d Congress, 1st Session. House of Representatives Miscellaneous No. 97. 1854. 8vo. pp. 310.

The editions of all the reports prior to that for 1853 are almost entirely exhausted. In the preceding one, however, all the previous reports of the Secretary are reproduced from the beginning, so that this embraces the substance of all that have gone before it.

75. Ninth Annual Report of the Board of Regents of the Smithsonian Institution, showing the operations, expenditures, and condition of the Institution up to January 1, 1855, with the proceedings of the Board up to February 24, 1854. March 3, 1855, ordered to be printed. 1855. 8vo. pp. 464.

77. Tenth Annual Report of the Board of Regents of the Smithsonian Institution, showing the operations, expenditures, and condition of the Institution up to January 1, 1856, and the proceedings of the Board up to March, 1856. May 23, 1856, laid on the table, and ordered to be printed. 1856. 8vo. pp. 438.

91. Annual Report of the Board of Regents of the Smithsonian Institution, showing the operations, expenditures, and condition of the Institution for the year 1856, and the proceedings of the Board up to January 28, 1857. 1857. 8vo. pp. 468.

107. Annual Report of the Board of Regents of the Smithsonian Institution, showing the operations, expenditures and condition of the Institution for the year 1857. 1858. 8vo. pp. 438.

109. Annual Report, etc., for the year 1858. 1859. 8vo. pp. 450.

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149. Annual Report, etc., for the year 1861. 8vo. (In press.)

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B. SPECIAL ARTICLES IN ANNUAL REPORTS.

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Loomis.—Lecture on the Zone of small Planets between Mars and Jupiter. By Professor Elias Loomis. Report for 1854, pp. 137—146. 1855.

Snell.—Lecture on Planetary Disturbances. By Prof. E. S. Snell. Report for 1855, pp. 175—190. 1856.

Alexander.—Lecture on the Vastness of the Visible Creation. By Prof. S. Alexander. Report for 1857, pp. 168—178. 1858.

Caswell.—Lectures on Astronomy. By Prof. A. Caswell. Report for 1858, pp. 85—137. 1859.

Maedler.—Latest Researches of M. Maedler, relating to the general movement of the Stars around a central point. Translated for the Smithsonian Institution. Report for 1859, pp. 220—234. 1860.

METEOROLOGY.

Russell.—Lectures on Meteorology. By R. Russell. Report for 1854, pp. 18—215. With an Appendix by the Secretary of the Smithsonian Institution, pp. 215—230. 1855.

Gibbons.—On the Climate of San Francisco. By Dr. H. Gibbons. Report for 1854, pp. 231—271. 1855.

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Meech.—On the relative Intensity of the Heat and Light of the Sun upon different Latitudes of the Earth. By L. W. Meech. Report for 1856, pp. 321—356. 1857.

Duprez.—Report on Atmospheric Electricity. By M. T. Duprez. Translated from the French by Dr. L. D. Gale. Report for 1858, pp. 290—371. 1859.

Meteorological Notices. Report for 1860, pp. 401—416. 1861.

TERRESTRIAL MAGNETISM.

Hilgard.—Description of the Magnetic Observatory of the Smithsonian Institution. By J. E. Hilgard. Report for 1859, pp. 385—395. 1860.

Sabine.—Notices of the Progress of our Knowledge regarding the Magnetic Storms. By Maj. Gen. E. Sabine. (From the Proceedings of the Royal Society.) Report for 1860, pp. 393—400. 1861.

PHYSICS.

Müller.—Report on Recent Progress in Physics. By Dr. John Müller of Freiburg. (Translated from the German for the Smithsonian Institution.) Report for 1855, pp. 311—424. Report for 1856, pp. 357—456. Report for 1857, pp. 332—431. Report for 1858, pp. 372—415.

Henry.—Syllabus of a Course of Lectures on Physics. By Professor Joseph Henry. Report for 1856, pp. 187—220. 1857.

Powell.—Reports on the State of Knowledge of Radiant Heat, made to the British Association for the Advancement of Science at the meetings in 1832, 1840, and 1854. By the Rev. Baden Powell. Report for 1859, pp. 298—384. 1860.

CHEMISTRY.

Chace.—Lecture on Oxygen and its Combinations. By Prof. George J. Chace. Report for 1855, pp. 143—150. 1856.

Johnson.—Lectures on Agricultural Chemistry. By Prof. S. W. Johnson. Report for 1859, pp. 119—194. 1860.

TECHNOLOGY.

Channing.—Lecture on the American Fire-Alarm Telegraph. By Dr. W. F. Channing. Report for 1854, pp. 147—155. 1855.

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GEOGRAPHY.

Culbertson.—Journal of an Expedition to the Manvaises Terres and the Upper Missouri in 1850. By Thaddeus A. Culbertson. Appendix IV to Report for 1850 (from pages 84 to 145). 1851.

Froebel.—Remarks contributing to the Natural History of the North American Continent. By Julius Froebel. Report for 1854, pp. 272—281. 1855.

Carleton.—Diary of an Excursion to the Ruins of Abo, Zuarra, and Grand Zuevera, under the command of Maj. J. H. Carleton, U. S. A. Report for 1854, pp. 296—316. 1855.

Kohl.—Substance of a Lecture delivered at the Smithsonian Institution on a Collection of the Charts and Maps of America. By J. G. Kohl. Report for 1856, pp. 93—147. 1857.

ETHNOLOGY.

Letherman.—Sketch of the Navajo Indians. By Dr. J. Letherman, U. S. A. Report for 1855, pp. 283—297. 1856.

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Retzius.—Present State of Ethnology in relation to the Form of the Human Skull. By Prof. A. Retzius. Translated from the French by C. A. Alexander. Report for 1859, pp. 250—270. 1860.

Morlot.—General Views on Archæology. By A. Morlot. Translated by P. A. Harry. Report for 1860, pp. 284—343. 1861.

GENERAL NATURAL HISTORY.

Miscellaneous Natural History Correspondence. On the Natural History of Beaver Islands, Mich., by J. J. Strang. On the Habits of the Black Bass of the Ohio (*Grystes fasciatus*), by John Eoff. On the Natural History of the Country about Fort Ripley, Minn., by Dr. J. F. Head, U. S. A. On the Habits of the Gopher of Illinois (*Geomys bursarius*), by T. S. Parvin. On the Habits of a species of Salamander (*Amblystoma opacum*)^{Bd.}, by the Rev. Charles Mann. On the *Amblystoma luridum*, a Salamander inhabiting Wisconsin, by Dr. P. R. Hoy. Report for 1854, pp. 282—295. 1855.

Morris.—Lecture on Natural History as applied to Farming and Gardening, and on Insect Instincts and Transformations. By Rev. J. G. Morris. Report for 1855, pp. 130—141. 1856.

Instructions in reference to Collecting Nests and Eggs of North American Birds. Report for 1858, pp. 153—157. 1859.

Instructions for Collecting Insects. *Coleoptera*, by Dr. J. L. Le Conte. *Diptera*, by Dr. H. Loew and Barón R. Osten Sacken. *Lepidoptera*, by Dr. B. Clemens. (Other orders by P. R. Uhler.) Report for 1858, pp. 158—200. 1859.

PHYSIOLOGY.

Brainard.—Lecture on the Nature and Cure of the Bite of Serpents and the Wounds of Poisoned Arrows. By Dr. David Brainard. Report for 1854, pp. 123—136. 1855.

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Gesner.—On the Habits of the Pouched Rat or Salamander (*Geomys pineti*) of Georgia. By Dr. W. Gesner. Report for 1860, pp. 431—433. 1861.

Willis.—List of Birds of Nova Scotia. Compiled from notes by Lieut. Blakiston, R. A., and Lieut. Bland, R. E., made in 1852—1855. By J. R. Willis. Report for 1858, pp. 280—286. 1859.

Bland.—List of Birds of Bermuda. By Lieut. Bland, R. E. Communicated by John R. Willis. Report for 1858, pp. 286—289. 1859.

Barnard.—Catalogue of the Birds of Chester County, Pa. By Vincent Barnard. Report for 1860, pp. 434—438. 1861.

Newton.—Suggestions for Saving Parts of the Skeletons of Birds. By Alfred Newton. Report for 1860, pp. 417—421. 1861.

Baird.—Report on the Fishes observed on the Coasts of New Jersey and Long Island during the summer of 1854. By Spencer F. Baird. Report for 1854, pp. 317—353. 1855.

Baird.—Report to the Secretary of the Smithsonian Institution on the Fishes of the New Jersey Coast as observed in the summer of 1854. By Spencer F. Baird. June, 1855. Pp. 40.

Extra edition of the preceding article with alphabetical index added.

Gill.—On the Fishes of New York. By Theodore Gill. Report for 1856, pp. 253—269. 1857.

Taylor.—An Account of the Grasshoppers and Locusts of America. By A. S. Taylor. Report for 1858, pp. 200—214. 1859.

Motschulsky.—On the Means of Destroying the Grasshopper. By V. Motschulsky. Translated from the Russian by Prof. W. W. Turner. Report for 1858, pp. 214—228. 1859.

Vollum.—Notes on the Wingless Grasshopper of California. By E. P. Vollum, U. S. A. Report for 1860, pp. 422—425. 1861.

Carpenter.—Lectures on the Shells of the Gulf of California. By P. P. Carpenter. Report for 1859, pp. 194—219. 1860.

Carpenter.—Lectures on Mollusca, or "Shellfish," and their Allies. By P. P. Carpenter. Report for 1860, pp. 150—283. 1861.

An extra edition with alphabetical index also printed.

BOTANY AND BOTANICAL GEOGRAPHY.

Harvey.—Substance of a Course of Lectures on Marine Algae. By W. H. Harvey. Report for 1855, pp. 87—130. 1856.

Martens.—Vegetable Colonization of the British Isles, of Shetland, Faroe, and Iceland. By Charles Martens. Translated from the French for the Smithsonian Institution. Report for 1858, pp. 229—245. 1859.

Cooper.—On the Distribution of the Forests and Trees of North America, with notes on its physical geography. By Dr. J. G. Cooper. Report for 1858, pp. 246—280. 1859. Continuation. Report for 1860, pp. 439—442. 1861.

GEOLOGY.

Le Conte.—Lectures on Coal. By Prof. Joseph Le Conte. Report for 1857, pp. 119—168. 1858.

MINERALOGY.

Catalogues of Rocks, Minerals, and Ores collected during various U. S. Geological Surveys, and deposited in the Smithsonian Institution. Collections by Dr. C. T. Jackson, Dr. John Locke, J. W. Foster, J. D. Whitney, and Dr. D. D. Owen. Report for 1854, pp. 338—396. 1855.

Smith.—Lecture on Meteoric Stones. By Prof. J. Lawrence Smith. Report for 1855, pp. 151—174. 1856.

Contains description and figure of the great Couch Meteorite in the Museum of the Smithsonian Institution.

BIBLIOGRAPHY.

Jewett.—Appendix to the Fourth Report for 1849, of the Board of Regents of the Smithsonian Institution, containing a report on the public libraries of the United States, January 1, 1850. By Charles C. Jewett, Librarian. Pp. 208. 1850.

Jewett.—Notices of Public Libraries in the United States. By Professor C. C. Jewett. Pp. 208. (Part of the Fifth Annual Report to Congress for 1849.)

Extra edition of the preceding.

Jewett.—Appendix to Librarian's Report. List of books, maps, charts, musical compositions, etc., delivered to the Librarian of the Smithsonian Institution from August 10, 1846, to December 31, 1849: in compliance with the requirement of the Act of Congress, approved August 10, 1846, establishing the Smithsonian Institution. By C. C. Jewett, Librarian. Report for 1850, pp. 146—326. 1851.

BIOGRAPHY.

Cuvier.—Memoir of Priestley. Read before the National Institute of France, by M. Cuvier, June 27, 1805. Translated by C. A. Alexander. Report for 1858, pp. 138—152. 1859.

Flourens.—Memoir of Pyramus De Candolle. By M. Flourens. Translated for the Smithsonian Institution by C. A. Alexander. Report for 1859, pp. 271—283. 1860.

Cuvier.—Memoir of Haüy. Read before the Academy of Science by Baron Cuvier. Translated by C. A. Alexander. Report for 1860, pp. 376—392. 1861.

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Physics.

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Chemistry and Technology.

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 Chem. Arts.

Ethnology and Philology.

71. Haven. American Archæology.
 1*. Squier & Davis. Anc. Mon. Miss.
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1850.

Culbertson. Expedition to Mauvaises Terres.

Jewett. Copyright Books from 1846—1849.

1854.

Marsh. Lectures on Camel.

Brainard. Bite of Serpents, and Poison of Arrows.

Loomis. Zone of Small Plants.

Channing. Am. Fire-Alarm Telegraph.

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Baird. Fishes of New Jersey and Long Island.

Catal. of Rocks, Minerals, etc., of U. S. Geol. Survey.

1855.

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1856.

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Reid. Applied Architecture.

Henry. Syllabus of Lectures on Physics.

Henry. Acoustics of Public Buildings.

Gill. Fishes of New York.

Guest. Indian Remains near Prescott, C. W.

Babbage. Tables of Constants of Nature and Art.

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Meech. Intensity of Heat and Light of Sun.

1857.

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Alexander. Vastness of Visible Creation.

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Masterman. Obs. on Natural Phenom.

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Cuvier. Memoir of Priestley.

Instructions for Collecting Nests and Eggs.

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ann. Habits of Salamander. (1854.)
oy. " " (1854.)
ll. Fishes of New York. (1856.)
ylor. American Grasshoppers and
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otschulsky. Destroying of Grass-
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illis. Birds of Nova Scotia. (1858.)
and. Birds of Bermuda. (1858.)
rpenter. Shells of Gulf of California.
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rpenter. Mollusca. (1860.)
ewton. Parts of Skeletons of Birds.
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- Vollum.** Wingless Grasshoppers of
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Gesner. Habits of Pouched Rat.

(1860.)

- Barnard.** Birds of Chester County, Pa.
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Botany and Botanical Geography.

- Harvey.** Marine Algæ. (1855.)
Martens. Vegetable Colonization of
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Cooper. Distribution of N. Am. Forests
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 1860.)

Geology.

- Le Conte.** Coal. (1857.)

Mineralogy.

- Catal.** of Rocks, Minerals, etc., of U. S.
 Geol. Surveys. (1854.)
Smith. Meteoric Stones. (1855.)

Bibliography.

- Jewett.** Notice of Pub. Lib. U. S.
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Jewett. Copyright Books from 1846—
 1849. (1850.)

Biography.

- Cuvier.** Memoir of Priestley. (1858.)
Flourens. Memoir of De Candolle.
 (1859.)
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Miscellaneous.

- Reed.** The Union. (1854.)
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OF

FOREIGN CORRESPONDENTS

OF THE

SMITHSONIAN INSTITUTION.

CORRECTED TO JANUARY, 1862.



WASHINGTON:
SMITHSONIAN INSTITUTION.

MAY, 1862.

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ADVERTISEMENT.

THE present publication is intended as a list of the foreign institutions with which the Smithsonian Institution is, at the present time, in correspondence, and in fact embraces all that have come to its knowledge having objects akin to its own, or from which it has received serial publications up to the date mentioned on the title-page.

As new editions of the list will be published from time to time, the Smithsonian Institution desires to receive any information relative to new addresses, changes of title or character of the old ones, typographical errors, etc.

JOSEPH HENRY,
Secretary S. I.

SMITHSONIAN INSTITUTION,
WASHINGTON, April, 1862.

(2)

PHILADELPHIA :
COLLIER & BROTHER.

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Nordisk Universitets-Tidsskrift (Journal of the Northern Universities).
Skandinaviske Naturforskeres Forsamling (Scandinavian Association of Naturalists).

SWEDEN.

Götheborg—Kongliga Vetenskaps- och Vitterhets-Samhället (Royal Society of Science and Belles Lettres).
Lund—Kongliga Universitetet.
Observatoriet.
Physiographiske Forening (Physiographic Association).
Stockholm—Kongliga Landbruks-Akademien (Royal Academy of Agriculture).
Kongliga Vetenskaps-Akademien (Royal Academy of Science).
Kongliga Vitterhets- Historie- och Antiquitets-Akademien (Royal Academy of Belles Lettres, History, and Antiquities).
Observatoriet.
Pharmaceutiska Institutet.
Biblioteket (Royal Library).

Schwedische Gesellschaft der Aertze.

Svenska Akademien.

Upsala—Kongliga Universitetet.

Kongliga Vetenskaps-Societeten (Royal Society of Science).

Universitetets Observatoriet.

Westerås—Bibliotheca Arosiensis.

NORWAY.

Bergen—Bergensk Museum (Bergen's Museum).

Christiania—Forening til Norske Fortidsminde-merkens Bevaring (Society for the Preservation of Northern Antiquities).

Kongelige Norske Universitet.

Observatorium.

Videnskabs Selskab i Christiania (Scientific Society of Christiania).*

Trondhjem (Drontheim)—Kongelige Norske Videnskabs-ernes-Selskab (Royal Northern Society of Science).

ICELAND.

Reykjavik—Íslands Stíftisbókasafn (Iceland's Foundation Library).

Hít islenzka bókmentafélag (Publishers' Association of Iceland).

DENMARK.

Kjöbenhavn (Copenhagen)—Astronomisk Observatorium.

Danske Landmands-Forsamling (Association of Danish Agriculturists).

Kongelige Bibliothek.

Kongelige Danske Selskab for Fædrelandets Historie og Sprog (Royal Danish Society of National History and Language).

Kongelige Danske Søkort-Archivet. (Hydrographic Office.)

* Replacing the Physiographiske Forening.

Kongelige Danske Videnskabernes-Selskab (Royal Danish Society of Science).
 Kongelige Landhuusholdnings-Selskab (Royal Society of Rural Economy).
 Kongelige Nordiske Oldskrift-Selskab (Royal Society of Northern Antiquaries).
 Naturhistoriske Forening.
 Samfund til den Danske Literaturs Fremme (Society for the Advancement of Danish Literature).
 Tidsskrift for Veterinær (Veterinary Journal).
 Veterinær-Selskab (Veterinary Society).

RUSSIA.

Astrakhan—Obshtshestvo Morskikh Wratchei (Society of Naval Physicians).

Cronstadt—Cronstatskaia flotskaia Biblioteka (Naval Library of Cronstadt).

Morskaia Biblioteka (Naval Library).

Morskaia Observatoriya (Naval Observatory).

Obshtshestvo Morskikh Wratchei (Society of Naval Physicians).

Dorpat—Dorpatser Naturforscher-Gesellschaft.

Gelehrte Esthnische Gesellschaft.

K. Universitäts-Sternwarte.

Universität.

Helsingfors—Finske Läkare Sällskapet. (Society of Physicians of Finland.)

Magnetisches und meteorologisches Observatorium.

Societas Scientiarum Fennica.

Universität.

Kasan—Imper. Kazanskii Universitet.

Observatorium.

Kharkow—Universität.

Odessa—Société géographique.

St. Petersburg—Imperatorsky Universitet Swjatago Wladimira (Imperial University of the Holy Wladimir).

Observatorium.

DE NEDERLANDEN. (HOLLAND.)

Amsterdam (*Noord-Holland*)—Koninklijke Akademie van Wetenschappen (Royal Academy of Sciences).

Koninklijk Zoologisch Genootschap "Natura Artis Magistra" (Royal Zoological Society).

Stadsbibliotheek (City Library).

Vereeniging voor Volksvlijt (Association for Popular Industry).

Wiskundig Genootschap: "Een onvermoeide Arbeid komt alles te boven" (Mathematical Society: "Untiring industry overcomes all").

Arnhem (*Gelderland*)—Genootschap "Tot Nut en Vergenoe- gen" (Society for Utility and Amusement).

Openbare Bibliotheek (Public Library).

Bois-le-Duc (*Brabant*)—Bibliotheek Noord-Braband.

Société Littéraire du Brabant Hollandais.

Delft (*Zuid-Holland*)—Bureau Technologique.

Koninklijke Akademie ter opleiding van burgerlijke ingenieurs enz (Royal Academy for the Education of Civil Engineers, etc.).

Deventer (*Overijssel*)—Openbare Bibliotheek (Public Library).

s'Gravenhage (The Hague) (*Zuid-Holland*)—Koninklijke Bibliotheek (Royal Library).

Koninklijk Instituut van Ingenieurs (Royal Institute of Engineers).

Nederlandsche Entomologische Vereeniging (Entomological Society of the Netherlands).

Groningen (*Groningen*)—Academia Groningana.

Genootschap ter Bevordering der Natuurkundig Wetenschappen (Society for the Advancement of Natural Sciences).

Haarlem (*Noord-Holland*)—Geologische Commissie in Nederland (Geological Commission of the Netherlands).

Hollandsche Maatschappij der Wetenschappen (Society of Sciences of Holland).

Nederländische Ökonomische Gesellschaft.

Teyler's Genootschap.

Hertogenbosch (*Noord-Brabant*)—Provinciaal Genootschap van Kunsten en Wetenschappen in Noord-Brabant.

Hoorn—Societas Medico-Physica Hornana.

Leeuwarden (*Friesland*)—Friesch Genootschap van Geschied-oudheid-en taalkunde (Friesland Society of History, Antiquity, and Philology).

Leiden (*Zuid-Holland*)—Academia Lugduno-Batava.
Maatschappij der Nederlandsche Letterkunde (Society of Literature of the Netherlands).
Rijk's Observatorium (National Observatory).
Rijk's Museum van Natuurlijke Geschiedenis (National Museum of Natural History).
Vereeniging voor de Flora van Nederland.

Middelburg (*Zeeland*)—Het Zeeuwsch Genootschap der Wetenschappen.
Provinciale Bibliotheek van Zeeland.

Rotterdam (*Zuid-Holland*)—Bataafsch Genootschap der Proefondervindelijke Wijsbegeerte (Batavian Society of Experimental Philosophy).

Utrecht (*Utrecht*)—Academia Rheno-Trajectina.
Archiv für holländische Beiträge zur Natur- und Heilkunde.
Historisch Genootschap.
Koninklijk Nederlandsch Meteorologisch Instituut.
Observatorium.
Provinciaal Utrechtsch Genootschap van Kunsten en Wetenschappen (Provincial Society of Arts and Sciences of Utrecht).

Zwolle (*Overijssel*)—Overijsselsche Vereeniging tot Ontwikkeling van Provinciale Welvaart (Overijssel Society for Promotion of Provincial Welfare).
Vereeniging tot beoefening van Overijsselsch Rigt en Geschiedenis (Society for the Cultivation of Overijssel Jurisprudence and History).

GERMANY including AUSTRIA and PRUSSIA.

Allgemeine Deutsche Apotheker Verein.

Deutsche Ornithologen-Gesellschaft.

Verein der Süddeutschen Forstwirthe.

Versammlung Deutscher Land- und Forstwirthe.

Versammlung Deutscher Naturforscher und Aerzte.

Aachen (*Prussia*)—Verein für nützliche Wissenschaften und Gewerbe.

Agram (*Austria*)—Handels und Gewerbekammer für Kroatien.
K. K. Kroatisch-Slavonische Landwirthschafts-Gesellschaft.
Gesellschaft für südslav. Geschichte und Alterthümer.

Altenburg (*Saxe-Altenburg*)—Geschichts- und Alterthumsforschende Gesellschaft.
Naturforschende Gesellschaft des Osterlandes.
Pomologische Gesellschaft.

Altona (*Holstein*)—Sternwarte.
Thierschutz Verein.

Ansbach (*Bavaria*)—Historischer Verein in Mittelfranken.

Arolsen (*Waldeck*)—Landwirthschaftlicher Verein im Fürstenthum Waldeck.

Augsburg (*Bavaria*)—Historischer Verein für Schwaben und Neuburg.

Landwirthsch. Verein von Schwaben und Neuburg.
Naturhistorischer Verein.

Bamberg (*Bavaria*)—Naturforschende Gesellschaft.

Bendorf (*Prussia*)—Deutsche Gesellschaft für Psychiatrie und gerichtliche Psychologie.

Berlin (*Prussia*)—Seine Majestät der König von Preussen.
Acclimatisations-Verein für die Preuss. Staaten.
Botanischer Verein für die Provinz Brandenburg, etc.
Central Verein für das Wohl der arbeitenden Klassen.
Deutsche Geologische Gesellschaft.
Entomologischer Verein.
General-Direction der Königlichen Museen.
Gesellschaft für Erdkunde.
Gesellschaft Naturforschender Freunde.
Gewerbe-Institut.
Königliche Bibliothek.
Königliches Landes-Oeconomie-Collegium.

Königlich Preussische Akademie der Wissenschaften.
 Königlich Preussischer Generalstab der Armee.
 Königlich Preussische Kriegs-Akademie.
 Königlich Preussische Technische Bau-Deputation.
 Meteorologisches Institut.
 Physikalische Gesellschaft.
 Polytechnische Gesellschaft.
 Redaction des Archivs für path. Anatomie.
 Redaction des Landwirthschaftlichen Verein.
 Redaction des Nautischen Jahrbuchs (Dr. C. Bremi-
 ker).
 Redaction des Statistischen Central-Archivs (Dr. O.
 Hübner).
 Statistisches Bureau.
 Stenographischer Verein.
 Universitäts-Bibliothek.
 Universitäts-Sternwarte.
 Verein Deutscher Ingenieure.
 Verein für deutsche Statistik.
 Verein für Eisenbahnkunde.
 Verein zur Beförderung des Gartenbaues.
 Verein zur Beförderung des Gewerbefleißes in Preussen.
 Vereinigte Artillerie und Ingenieur Schule.

Bernburg (*Anhalt*)—Norddeutscher Apotheker-Verein.

Bilk (bei Düsseldorf) (*Prussia*)—Sternwarte.

Blankenburg (*Brunswick*)—Naturwissenschaftlicher Verein
des Harzes.

Bonn (*Prussia*)—K. Sternwarte.

Landwirthschaftlicher Central-Verein für Rhein-
preussen.

Naturhistorischer Verein der preussischen Rhein-
lande und Westphalens.

Niederrheinische Gesellschaft für Natur u. Heilkunde.

Redaction des Wiegmann'schen Archivs für Natur-
geschichte. (Prof. Troschel.)

Universitäts-Bibliothek.

Universitäts-Sternwarte.

Verein von Alterthumsfreunden im Rheinlande.

Braunsberg—Physikalisch-Medicinische Gesellschaft.

- Braunschweig** (*Brunswick*)—F. Vieweg und Sohn.
Garten-Verein im Herzogthum Braunschweig.
- Bremen** (*Hanse-Town*)—Stadt-Bibliothek.
Sternwarte.
- Breslau** (*Prussia*)—Blinden-Anstalt.
Gewerbe-Verein.
Königl. Preuss. Ober-Berg-Amt.
Landwirthschaftlicher Central-Verein für Schlesien.
Schlesische Blinden-Unterrichts-Anstalt.
Schlesische Gesellschaft für vaterländische Cultur.
Schlesischer Verein für Berg-und Hüttenkunde.
Universitäts-Bibliothek.
Universitäts-Sternwarte.
Verein für schlesische Insektenkunde.
- Bregenz** (*Austria*)—Naturforschender Verein.
- Bromberg** (*Prussia*)—Landwirthschaftlicher Central-Verein für
den Netze-District.
- Brünn** (*Austria*)—K. K. Mährisch-schlesische Gesellschaft für
Ackerbau Natur- und Landeskunde.
Mährisch-schlesische Blinden-Erziehungs-Institute.
Werner-Verein zur geologischen Durchforschung von
Mähren und Schlesien.
- Buda** (*Austria*)—Á Magyar Tudományok Akademia.
- Cassel.** See *Kassel*.
- Celle** (*Hannover*)—Landwirthschaftliche Gesellschaft.
- Clempenow bei Anclam** (*Prussia*)—Baltischer Verein zur
Beförderung des Landwirthschaft.
- Coblenz.** See *Koblenz*.
- Cracau.** See *Krakau*.
- Czernowitz** (*Austria*)—Verein für Landeskultur und Landes-
kunde im Herzogthume Bukowina.
- Danzig** (*Prussia*)—Landwirthschaftlicher Central-Verein.
Naturforschende Gesellschaft.
Sternwarte.
- Darmstadt** (*Hessia*)—Gartenbau-Verein.
Grossherzoglich Hessische Central-Stelle für die Land-
wirthschaft.

Grossherz. Hessischer Gewerbe-Verein.
 Grossherzogliche Hof-Bibliothek.
 Mittelrheinisch-geologischer Verein.
 Naturhistorischer Verein für das Grossherz. Hessen.
 Verein für Erdkunde u. verwandte Wissenschaften.

Deidesheim (*Bavaria*)—Pollichia: Naturwissenschaftlicher
 Verein der bayerischen Pfalz.

Dessau (*Anhalt*)—Naturhistorischer Verein.

Dresden (*Saxony*)—Seine Majestät der König von Sachsen.
 Flora: Gesellschaft für Botanik und Gartenbau.
 Gesellschaft für Natur- und Heilkunde.
 Gesellschaft "Isis."
 Gewerbe-Verein.
 Königliche Bibliothek.
 Königliche Blinden-Anstalt.
 K. Sächsische Oekonomische Gesellschaft.
 Königl. sächs. Verein für Erforschung und Erhaltung
 vaterländischer Alterthümer.
 K. Sammlung für Kunst u. Wissenschaften.
 Sächsische Ingenieur-Verein.
 Statistisches Bureau.

Elberfeld (*Prussia*)—Naturwissenschaftl. Verein v. Elberfeld
 u. Barmen.

Eldena (*Prussia*)—Baltischer Central Verein.
 Gartenbau Verein für Neuvorpommern und Rügen.
 K. P. Staats- und landwirthschaftl. Akademie Eldena.

Emden (*Hannover*)—Naturforschende Gesellschaft.
 Taubstummen Anstalt.

Ems (*Nassau*)—Redaction der Balneologischen Zeitung.

Erfurt (*Prussia*)—Akademie Gemeinnütziger Wissenschaften.
 Gartenbau-Verein.

Erlangen (*Bavaria*)—Universitäts-Bibliothek.
 Physikalisch-Medicinische Gesellschaft.

Frankfurt-an-der-Oder (*Prussia*)—Historisch-Statistischer
 Verein.

Frankfurt-am-Main (*Hanse-Town*)—Aerztlicher Verein.
 Gartenbaugesellschaft "Flora."

Physikalischer Verein.
 Senckenbergische naturforschende Gesellschaft.
 Verein für Geographie und Statistik.
 Zoologische Gesellschaft.

Freiberg (*Saxony*)—Königlich Sächsische Bergakademie.

Freiburg (*Baden*)—Gesellschaft für Beförderung der Naturwissenschaften.
 Universitäts-Bibliothek.

Friedberg (*Hessia*)—Blinden-Anstalt.
 Taubstummen-Anstalt.

Fürth (*Bavaria*)—Gewerbe-Verein der Stadt Fürth.

Giessen (*Hessia*)—Historischer Verein.
 Oberhessische Gesellschaft für Natur- und Heilkunde.
 Universitäts-Bibliothek.
 Verein für Microscopie.
 Zoologisches Museum.

Görlitz (*Prussia*)—Naturforschende Gesellschaft.
 Oberlausitzer Gesellschaft der Wissenschaften.
 Verein für Hühnerzucht.

Göttingen (*Hannover*)—Königliche Gesellschaft der Wissenschaften.
 Sternwarte.
 Universitäts-Bibliothek.

Gotha (*Saxe-Koburg-Gotha*)—Geographische Anstalt.
 Herz. Bibliothek der Friedenstein'schen Sammlungen.
 Sternwarte.
 Thüringer Gartenbau-Verein.

Gratz (*Austria*)—Geognostisch-Montanistischer Verein für Steiermark.
 Historischer Verein für Steiermark.
 K. K. Steiermärkische Landwirthschafts-Gesellschaft.
 Steiermärkisch-Ständisches Joanneum.
 Steiermärkischer Industrie- und Gewerbe-Verein.

Greifswald (*Prussia*)—Universitäts-Bibliothek.

Gumbinnen (*Prussia*)—Landwirthschaftlicher Central-Verein für Littauen und Masuren.

Hall (*Austria*)—Verein zur Durchforschung Tirols und Vorarlbergs.

- Halle** (*Prussia*)—Naturforschende Gesellschaft.
 Naturwissenschaftlicher Verein für Sachsen und Thüringen.
 Thüringisch-Sächsischer Verein für vaterländische Alterthumskunde.
 Universitäts-Bibliothek.
- Hamburg** (*Hanse-Town*)—Blinden-Anstalt.
 Commerz-Bibliothek.
 Johanneum.
 Naturwissenschaftlicher Verein.
 Stadt-Bibliothek.
 Sternwarte.
 Thierschutz-Verein.
 Verein für Hamburgische Geschichte.
 Verein für Handelsfreiheit.
- Hanau** (*Hessia*)—Wetterauer Gesellschaft für die gesammte Naturkunde.
- Hannover** (*Hannover*)—Gewerbe-Verein für das K. Hanover.
 Königliche Bibliothek.
 Naturhistorische Gesellschaft
 Statistisches Bureau.
- Heidelberg** (*Baden*)—Naturhistorisch-medicinischer Verein.
 Süddeutscher Apotheker Verein.
 Universitäts-Bibliothek.
- Hermannstadt** (*Austria*)—Siebenbürgischer Verein für Naturwissenschaften.
 Verein für Siebenbürgische Landeskunde.
- Hohenleuben** (*Saxony*)—Voigtländischer Alterthumsforschender Verein.
- Innsbruck** (*Austria*)—Ferdinandeum.
 K. K. Landwirthschafts-Gesellschaft für Tirol und Vorarlberg.
 Universitäts-Bibliothek.
- Jauer** (*Austria*)—Ökonomisch-patriotische Gesellschaft für das Fürstenthum Schweidnitz und Jauer.
- Jena** (*Saxe-Weimar*)—Kaiserliche Leopoldino-Carolinische Deutsche Akademie.
 Redaction der Zeitschrift für Deutsche Landwirthe.

- Joachimsthal** (*Austria*)—Montanistischer Verein.
- Karlsruhe** (*Baden*)—Badischer Alterthums-Verein.
Centralstelle für die Landwirthschaft.
Gewerbe Verein.
Grossherzogliche Hofbibliothek.
- Kassel** (*Hessia*)—K. Commission für Landwirthschaftliche Angelegenheiten in Kurhessen.
Kurahessische Landes Bibliothek.
Redaction des Journals für Ornithologie.
Verein für Hessische Landeskunde.
- Kiel** (*Holstein*)—Landwirthschaftlicher Generalverein des Herzogthums Holstein.
S. H. L. Gesellschaft für die Sammlung und Erhaltung vaterl. Alterthümer.
Schleswig-Holstein-Lauenburgische Gesellschaft für vaterländische Geschichte.
Universitäts-Bibliothek.
Verein nordlich der Elbe für Verbreitung naturwissenschaftlicher Kenntniss.
- Klagenfurt** (*Austria*)—Geschichts-Verein für Kärnten.
Kärntnischer Industrie u. Gewerbe-Verein.
K. K. Landwirthschafts-Gesellschaft.
Naturhistorisches Museum.
- Klausenburg** (*Austria*)—Erdélyi Muzeum Egylet (Society of the Transylvanian Museum).
- Klausthal** (*Hannover*)—Naturwissensch. Verein "Maja."
- Koblenz** (*Prussia*)—Naturhistorischer Verein.
- Koburg** (*Saxe-Koburg-Gotha*)—Verein für Naturkunde im Herzogthum Sachsen-Koburg.
- Köln**—Hist. Verein für den Niederrhein.
Landwirthschaftlicher Verein.
- Königsberg** (*Prussia*)—Centralstelle der Landwirthschaftlichen Vereine des Regierungs-Bezirks Königsberg.
Östpreussische Physikalisch-Ökonomische Gesellschaft.
Physikalisch-Medicinische Gesellschaft.
Preuss. Provinzial Verein für Blinden Unterricht.
Sternwarte.
Universitäts-Bibliothek.

- Krakau** (*Austria*)—C. K. Towarzystwo Naukowe Krakowskie.
(Society of Science of Cracow.)
Uniwersytet Krakowski.
Sternwarte.
- Kremsmünster** (*Austria*)—Sternwarte.
- Laibach** (*Austria*)—Landes-Museum.
Histor. Verein für Krain.
- Leipzig** (*Saxony*)—Dr. Felix Flügel (*Agent Smithsonian Institution*).
Deutsche Morgenländische Gesellschaft.
F. A. Brockhaus' Verlagsbuchhandlung.
Fürstlich Jablonowski'sche Gesellschaft.
Königlich Sächsische Gesellschaft der Wissenschaften.
Naturforschende Gesellschaft.
Polytechnische Gesellschaft.
Stadt-Bibliothek.
Taubstummen Anstalt.
Universitäts-Bibliothek.
Universitäts-Sternwarte.
- Lemberg** (*Austria*)—Biblioteka Zakladu Ossolinskich.
- Liegnitz** (*Prussia*)—Landwirthschaftlicher Verein.
- Linz** (*Austria*)—Handels- und Gewerbekammer Oberösterreichs.
Museum Francisco-Carolinum.
- Lübeck** (*Hanse-Town*)—Bibliothek zu S. Catharinen.
Kunst- und Naturalien Cabinet.
Museum für Kunst und Natur.
Verein für lübeckische Geschichte.
- Ludwigshafen** (——)—Versammlung Rheinscher Naturforscher.
- Lüneburg** (*Hannover*)—Naturwissenschaftlicher Verein.
Alterthums-Verein.
- Luxembourg** (*Luxenburg*)—Société des Sciences Naturelles du Grand-Duché de Luxembourg.
- Mainz** (*Hessia*)—Grossherzoglich Handels-Kammer.
Rheinische Naturforschende Gesellschaft.
- Mannheim** (*Baden*)—Sternwarte.
Verein für Naturkunde.

- Marburg** (*Hessia*)—Gesellschaft zur Beförderung der gesammten Naturwissenschaften.
Sternwarte.
Universitäts-Bibliothek.
- Marienwerder** (*Prussia*)—Verein Westpreussischer Landwirthe.
- Meiningen** (*Saxe-Meiningen*)—Verein für Pomologie und Gartenbau.
- Meissen** (*Saxony*)—Naturwissenschaftliche Gesellschaft "Isis."
- Mengeringhausen** (*Waldeck*)—Landwirthschaftlicher Verein im Fürstenthume Waldeck.
- Merseburg** (*Prussia*)—Landwirthschaftlicher Central-Verein für die Provinz Sachsen.
- München (Munich)** (*Bavaria*)—Historischer Verein für Oberbaiern.
Königlich Baierische Akademie der Wissenschaften.
Königl. Botanischer Garten.
Königliche Hof- und Staats-Bibliothek.
K. Quartiermeister Stab.
Königl. Staats-Ministerium.
K. Universitäts-Bibliothek.
Landwirthschaftlicher Verein.
Polytechnischer Verein.
Sternwarte.
Verein für Naturkunde.
- Münster** (*Prussia*)—Landwirthschaftlicher Central-Verein für Westphalen.
- Neu-Brandenburg** (*Mecklenburg*)—Verein der Freunde der Naturgeschichte in Mecklenburg.
- Nordhausen** (*Prussia*)—Wissensch. Verein.
- Nürnberg** (*Bavaria*)—Germanisches Museum.
Naturhistorische Gesellschaft.
- Offenbach** (*Hessia*)—Verein für Naturkunde.
- Oldenburg** (*Oldenburg*)—Grossherzogliche Bibliothek.
- Olmütz** (*Austria*)—K. K. Studien Bibliothek.
- Passau** (*Bavaria*)—Naturhistorischer Verein.
Praktische Gartenbau-Gesell. in Baiern.

- Pesth** (*Austria*)—Geologische Gesellschaft für Ungarn.
Királyi Magyar Természettudományi Társulat. (Ungarischer Naturwissenschaftlicher Verein).
K. K. Obergymnasium.
K. K. Sternwarte.
Magyar Nemzeti Museum (Hungarian National Museum).
Magyar Tudós Társaság. (Ungarische Gelehrte Gesellschaft.)
Pesther Handels-Akademie.
Universitäts-Bibliothek.
- Plauen** (*Saxony*)—Verein für Natur- und Heilkunde.
- Posen** (*Prussia*)—Bibliothèque de Kurnik.
Raczyński Bibliothek.
- Potsdam** (*Prussia*)—Botanischer Verein für die Provinz Brandenburg.
Landwirthschaftlicher Provinzial-Verein.
Verein zur Beförderung des Seidenbaues.
- Prag** (*Austria*)—Böhmischer Gewerbe-Verein.
Königlich Böhmisches Gesellschaft der Wissenschaften.
Königlich Böhmisches Museum.
K. K. Patriotisch-ökonomische Gesellschaft.
K. K. Sternwarte.
Medicinische Facultät.
Naturhistorischer Verein "Lotos."
Schafzüchter-Verein für Böhmen.
Universitäts-Bibliothek.
- Premislaw** (bei **Labes**) (*Prussia*)—Pommersche Ökonomische Gesellschaft.
- Pressburg** (*Austria*)—Verein für Naturkunde.
- Regensburg** (*Bavaria*)—Historischer Verein für die Ober-Pfalz.
K. Baierische Apotheker Verein.
K. Baierische botanische Gesellschaft.
Zoologisch-Mineralogischer Verein.
- Rostock** (*Mecklenburg*)—Naturwissenschaftliches Institut der Universität.
Mecklenburgische Naturforschende Gesellschaft.
Universitäts-Bibliothek.

Salzburg (*Austria*)—K. K. Landwirthschafts Gesellschaft.
 . Vaterländisches Museum Carolino-Augusteam.

Schwerin (*Mecklenburg-Schwerin*)—Grossherzogliches Statistisches Bureau.
 . Regierungsbibliothek.
 Verein für Mecklenburgische Geschichte und Alterthumskunde.

Sigmaringen (*Prussia*)—Landwirthschaftliche Centralstelle des Vereins zur Beförderung der Landwirthschaft und der Gewerbe in die Hohenzollernschen Lande.

Sondershausen (*Schwarzburg-Sondershausen*)—Verein zur Beförderung der Landwirthschaft.

Speier (*Bavaria*)—Historischer Verein für Rheinbaiern.
 Sternwarte des Königl. Lyzeums in Speier.

Stettin (*Prussia*)—Entomologischer Verein.
 Gesellschaft für pommersche Geschichte und Alterthumskunde.

Stuttgart (*Württemberg*)—Seine Majestät der König von Württemberg.
 Gartenbau-Gesellschaft "Flora."

Gesellschaft für die Weinverbesserung in Württemberg.
 Gewerbe-Verein.

Heilgymnastisches Institut.

K. Centralstelle für die Landwirthschaft.

K. Centralstelle für Gewerbe und Handel.

K. Öffentliche Bibliothek.

K. Statistisch-topographisches Bureau.

Königliches Staats Archiv.

Verein Deutscher Eisenbahn-Verwaltungen.

Verein für Vaterländ. Naturkunde in Württemberg.

Verein zur Fürsorge für entlassene Strafgefangene.

Württembergischer Alterthums-Verein.

Württembergischer Ärztlicher Verein.

Tharand (*Saxony*)—Königlich Sächs. Akademie für Forst- und Landwirthe.

Trier (*Prussia*)—Gesellschaft für nützliche Forschungen.

Trieste (*Austria*)—Civico Museo Ferdinando-Massimiliano.
 Gartenbau-Gesellschaft des Litorale.

- K. K. Hydrographische-Anstalt und Marine-Sternwarte (Director, Dr. Schaub).
- K. K. Nautische Akademie (Director, H. Littrow).
- ingen** (*Württemberg*)—Landwirthschaftlicher Verein.
Universitäts-Bibliothek.
- enza** (*Austria*)—Accademia Olimpica.
- iburg** (*Nassau*)—Verein Nassauischer Ärzte.
- mar** (*Saxe-Weimar*)—Geographisches Institut.
Verein für Blumistik und Gartenbau.
- n** (*Vienna*) (*Austria*)—Seine Kaiserlich-Königliche Majestät der Kaiser von Österreich.
Central-Verein Deutscher Zahnärzte.
Comité der Allgemeinen Versammlung von Berg- und Hüttenmännern.
Kaiserliche Akademie der Wissenschaften.
K. K. Central-Anstalt für Meteorologie u. Erd-Magnetism.
K. K. Direction des Administrativen Statistik.
K. K. Gartenbau-Gesellschaft.
K. K. Geographische Gesellschaft.
K. K. Geologische Reichsanstalt.
K. K. Handels-Ministerium.
K. K. Hofbibliothek.
K. K. Hof- und Staatsdruckerei.
K. K. Landwirthschafts-Gesellschaft.
K. K. Naturalien Kabinet.
K. K. Ober-Gymnasium zu den Schotten.
K. K. Orientalische Akademie.
K. K. Sternwarte.
K. K. Zoologisch-Botanische Gesellschaft.
Niederösterreichische Gewerbe-Verein.
Österr. Ingenieur-Verein.
Polytechnische Gesellschaft.
Redaction der Entomologischen Monatsschrift.
Redaction der Österreichischen Zeitschrift für praktische Heilkunde.
Universitäts-Bibliothek.
- sbaden** (*Nassau*)—Gewerbe-Verein für das Herzogthum Nassau.

Verein für Nassauische Geschichte u. Alterthums-
kunde.

Verein für Naturkunde.

Worms (*Hesse Darmstadt*) Grossherz. Handels-Kammer.

Verein Nassauischer Land- und Forstwirthe.

Würzburg (*Bavaria*)—Historischer Verein von Unterfranken
und Aschaffenburg.

Physikalisch-Medicinische Gesellschaft.

Polytechnischer Verein.

Universitäts-Bibliothek.

Zara (*Austria*)—Società Economica di Dalmazia.

SWITZERLAND.

Allgemeine Schweizerische Gesellschaft für die gesammten Natur-
wissenschaften. (See *Bern*.)

Versammlung Schweizerischer Naturforscher.

Aarau—Aargauische Naturforschende Gesellschaft.

Basel—Gesellschaft für vaterländische Alterthümer.

Gesellschaft zur Beförderung des Guten und Gemein-
nützigen.

Naturforschende Gesellschaft.

Universitäts-Bibliothek.

Bern—Allgemeine Schweizerische Gesellschaft für die gesammten
Naturwissenschaften.

Conseil Fédéral Suisse. (Schweizerisches Bundes
Rath.)

Eidgenössisches Statistisches Bureau.

Kanton-Schule.

Naturforschende Gesellschaft.

Sternwarte.

Universitäts-Bibliothek.

Chur—Naturforschende Gesellschaft Graubündens.

Genève—Bibliothèque de la Ville.

Institut National Genevois.

Observatoire.

Société des Arts de Genève.

Société Genevoise d'Utilité Publique.

Société d'Histoire et d'Archéologie de Genève.

Société de Géographie.
Société de Physique et d'Histoire Naturelle.
Société Médicale.

Lausanne—Asile des Aveugles de Lausanne.
Bibliothèque Cantonale Vaudoise.
Société d'Histoire de la Suisse Romande.
Société Vaudoise des Sciences Naturelles.
Société Industrielle d'Horlogerie.

Neuchâtel—Société des Sciences Naturelles.

St. Gallen—Naturwissenschaftliche Gesellschaft.

Sion—Société Valaisanne des Sciences Naturelles.

Solothurn—Naturforschende Gesellschaft.

Yverdon—Institut des Sourds-Muets à Yverdon.

Zürich—École Polytechnique Fédérale.
Gesellschaft für Vaterländische Alterthümer.
Naturforschende Gesellschaft.
Universitäts-Bibliothek.

BELGIUM.

Anvers (Antwerp)—Académie d'Archéologie.
Société de Pharmacie.
Société Royale des Sciences.

Bruxelles (Brussels)—Académie Royale des Sciences, des
Lettres et des Beaux-Arts de Belgique.
Bibliothèque Royale de Belgique.
Établissement Géographique de Bruxelles.
Société Centrale d'Agriculture de Belgique.
Société Palaeontologique de Belgique.
Observatoire Royal.
Société des Gens de Lettres Belges.
Société Royale Linnéenne de Bruxelles.
Société de Flora.

Gand (Ghent)—Université.
Société Royale d'Agriculture et de Botanique.

Liège—Société Royale des Sciences.
Société des Sciences Naturelles.

Louvain—Université Catholique.

Mons—Société des Sciences, des Arts et des Lettres du Hainaut.

FRANCE.

- Institut des Provinces de France.**
Congrès Scientifique de France.
- Abbeville**—Société Linnéenne du Nord du France.
 Société Impériale d'Emulation.
- Aix** (*Bouche du Rhone*)—Académie des Sciences, Agriculture, Arts et Belles-Lettres.
- Amiens**—Société des Antiquaires de Picardie.
 Société Linnéenne du Département de **Maine-et-Loire**.
- Angers**—Société d'Agriculture, Sciences et Arts.
 Société Académique de **Maine-et-Loire**.
- Angoulême**—Société d'Agriculture, Arts et Commerce du
 Dép. de la Charente.
- Arcueil**—Société d'Arcueil.
- Arras**—Société d'Arras.
- Bayeux**—Société d'Agriculture, Sciences, Arts et Belles-Lettres.
- Beauvais**—Société Académique d'Archéologie, Sciences, et
 Arts du Département de l'Oise.
- Besançon**—Académie des Sciences, Belles-Lettres et Arts.
- Béziers** (*Hérault*)—Société Archéologique.
- Bordeaux**—Acad. Impériale des Sciences, Belles-Lettres et Arts.
 Chambre de Commerce.
 Société d'Horticulture de la Gironde.
 Société des Sciences Physiques et Naturelles.
 Société Philomathique de Bordeaux.
 Société Linnéenne de Bordeaux.
- Brest**—Bibliothèque de la Marine Imperiale.
- Caen**—Académie des Sciences, Arts et Belles-Lettres.
 Société d'Agriculture et de Commerce de Caen.
 Société des Antiquaires de Normandie.
 Société Linnéenne de Normandie.
 Société de Médecine de Caen.
- Chambéry**—Société Imp. Académique de Savoie.
 Académie Impériale de Savoie.

Châlons-sur-Marne—Société d'Agriculture, Commerce et Sciences de la Marne.

Cherbourg—Société Académique de Cherbourg.
Société Imp. des Sciences Naturelles de Cherbourg.

Clermont-Ferrand—Académie des Sciences, Belles-Lettres et Arts.

Dijon—Académie des Sciences, Arts et Belles-Lettres de Dijon.
Société d'Agriculture et d'Industrie Agricole du Département de la Côte d'Or.

Douai—Muséum d'Histoire Naturelle.

Dunkerque—Société Dunkerquoise pour l'Encouragement des Sciences.

Evreux—Société Libre d'Agriculture, Sciences, Arts et Belles-Lettres de l'Eure.

Le Mans—Société d'Agriculture, Science et Arts de la Sarthe.

Lille—Société Impériale des Sciences, de l'Agriculture et des Arts.

Lyon—Société Impériale de l'Agriculture, Histoire Naturelle et Arts Utiles de Lyon.

Académie des Sciences, Belles-Lettres et Arts de Lyon.

Société Linnéenne de Lyon.

Société Hydrométrique de Lyon.

Mâcon—Acad. de Mâcon : Soc. des Arts, Belles-Lettres et d'Agriculture.

Marseilles—Académie des Sciences, Lettres et Arts.
Observatoire.

Mende—Société d'Agriculture, Industrie, Sciences et Arts du Département de la Lozère.

Metz—Académie Impériale de Metz.
Société d'Histoire Naturelle du Département de la Moselle.
Société des Sciences Médicales.

Montpellier—Société Archéologique de Montpellier.
Académie des Sciences et Lettres de Montpellier.
Société Générale d'Encouragement à la Sericulture.

Moulins—Société d'Horticulture de l'Allier.

Mulhouse—Société Industrielle.

- Nancy**—Académie de Stanislas.
- Nîmes**—Académie du Gard.
- Orléans**—Société des Sciences, Belles-Lettres et Arts d'Orléans.
Société Archéologique de l'Orléanais.
- Paris**—Sa Majesté Impériale l'Empereur des Français.
Gustave Bossange et Co. (*Agents of the Smithsonian Institution*).
Académie Impériale de Médecine.
American Library.
Bibliothèque de la Ville de Paris.
Bibliothèque du Jardin des Plantes.
Bibliothèque Impériale.
Bureau des Longitudes.
Conservatoire des Arts et Métiers.
Dépot des Cartes et Plans.
École Impériale des Mines.
École Impériale et Spéciale des Langues orientales vivantes.
École Polytechnique.
Institut de France.
Institut Historique de France.
Ministère de la Guerre.
Ministère de la Marine.
Ministère de l'Instruction Publique et des Cultes.
Observatoire Impérial.
Société d'Anthropologie.
Société des Antiquaires.
Société Asiatique.
Société Botanique de France.
Société de Biologie.
Société de Géographie.
Société de l'École des Chartes.
Société d'Encouragement pour l'Industrie Nationale.
Société Entomologique.
Société de Pharmacie.
Société Française pour la conservation des Monuments Historiques.
Société Française de Statistique Universelle (*Acad. Nat. Agr. Manufactur. et Commerciale*).

Société Géologique de France.
 Société Impériale et Centrale d'Horticulture de Paris.
 Société d'Horticulture de la Seine.
 Société Médicale Allemande de Paris.
 Société Météorologique de France.
 Société Impériale et Centrale d'Agriculture.
 Société Orientale de France.
 Société Philomatique.
 Société Polytechnique.
 Société de Secours des Amis des Sciences.
 Société Zoologique d'Acclimatation.

Puy—Société d'Agriculture, Sciences, Arts et Commerce.

Reims—Académie de Reims.

Muséum d'Histoire Naturelle de Reims.

Société des Sciences Naturelles.

Rouen—Académie des Sciences, Belles-Lettres et Arts de Rouen.

Saint-Quentin—Société des Sciences, Arts, Belles-Lettres, et
 Agriculture.

Société Académique.

Strasbourg—Société des Sciences Naturelles de Strasbourg.

Société des Sciences, Agriculture et Arts du Bas-
 Rhin.

Tarbes—Société Académique des Hautes-Pyrénées.

Toulon—Académie Navale.

Toulouse—Académie des Sciences, Inscriptions et Belles-Lettres
 de Toulouse.

Société Impériale de Médecine, Chirurgie et Phar-
 macie de Toulouse.

Tours—Société d'Agriculture, des Sciences, des Arts et des Belles-
 Lettres.

Troyes—Société d'Agriculture, Sciences, Arts, et Belles-Lettres
 de l'Aube.

ITALY.

Arezzo (*Tuscany*)—Accademia di Scienze, Lettere ed Arti.

Bergamo—Società Industriale Bergamasca.

I. R. Istituto Veneto di Scienze, Lettere ed Arti.
 Mechitaristen-Collegium.

Verona—Accademia d'Agricoltura, Commercio ed Arti di
 Verona.

PORTUGAL.

Coimbra—University.

Lisboa (Lisbon)—Academia Real das Sciencias.
 Biblioteca Nacional.
 Observatory.

SPAIN.

Barcelona—Real Academia de Buenas Letras de Barcelona.

Madrid—Acad. de las tres Nobles Artes de San Fernando.
 Biblioteca Real.
 Real Academia de Ciencias de Madrid.
 Real Academia de Ciencias Morales y Politicas.
 Real Academia de la Historia.
 Real Academia Española.

San Fernando—Observatorio Marino.

GREAT BRITAIN AND IRELAND.

Aberdeen—Observatory.
 Philosophical Society.

Armagh—Observatory. (Care of Rev. Dr. Robinson.)

Bath—Bath and West of England Agricultural Society.

Belfast—Belfast Institution.
 Chemico-Agricultural Society of Ulster.
 Library of Queen's College.
 Natural History and Philosophical Society.

Berwick-on-Tweed—Berwickshire Naturalists' Club.

Bristol—Bristol Institution for the Advancement of Science,
 Literature and the Fine Arts.
 City Library.

Cambridge—Cambridge Antiquarian Society.
 Cambridge Free Library.
 Cambridge Observatory.

Cambridge Philosophical Society.
University Library.

Cirencester—Royal Agricultural College.

Cork—Cuvierian Society.
Library of Queen's College.
Royal Cork Institution.

Dublin—Catholic College of Ireland.
Chemical Society of Dublin.
Dublin University Philosophical Society.
Dublin University Zoological and Botanical Association.
Geological Society of Dublin.
Irish Archæological and Celtic Society.
Library of Trinity College.
Observatory.
Royal Dublin Society.
Royal Irish Academy.
Royal Zoological Society of Ireland.

Durham—Observatory.

Edinburgh—Bannatyne Club.
Botanical Society.
Caledonian Horticultural Society.
Edinburgh New Philosophical Journal.
Geological Society.
Highland and Agricultural Society of Scotland.
Library of Faculty of Advocates.
Meteorological Society of Scotland.
Royal Institution for Encouragement of Fine Arts
in Scotland.
Royal Observatory.
Royal Physical Society.
Royal Scottish Society of Arts.
Royal Society of Edinburgh.
Sir David Brewster.
Society of Antiquaries of Scotland.
Spalding Club.
University Library.

Eton—Eton College.

Falmouth—Royal Cornwall Polytechnic Society.

Galway—Library of Queen's College.

Glasgow—Andersonian Institute.

Philosophical Society.

University Library.

Geological Society.

Greenwich—Royal Observatory.

Hull—Royal Institution.

Isle of Wight—Philosophical and Scientific Society.

Kensington—South Kensington Museum.

Kew—Library of Kew Gardens.

Observatory.

Kilkenny—Kilkenny and Southeast of Ireland Archæological Society.

Leeds—Geological and Polytechnic Society of the West Riding of Yorkshire.

Leeds Philosophical and Literary Society.

Leicester—Leicester Literary and Philosophical Society.

Liverpool—Free Public Library, Museum, and Gallery of Art, of the Town of Liverpool.

Geological Society.

Historic Society of Lancashire and Cheshire.

Literary and Philosophical Society.

Liverpool Naturalist's Field Club.

Liverpool Polytechnic Society.

Observatory.

Royal Institution.

London—Her Majesty the Queen of Great Britain and Ireland.
William Wesley, Bookseller, 2 Queen's Head Passage,
Paternoster Row, E. C. (*Agent Smithsonian Institution*).

Aborigines Protection Society.

Annals and Magazine of Natural History.

Archæological Institute of Great Britain and Ireland.

Architectural Publication Society.

Athenæum Club.

Mr. Bishop's Observatory, Regent's Park, London.

Board of Admiralty.

Board of Trade.
British Archæological Association.
British Association for the Advancement of Science.
British Government.
British Museum.
Camden Society.
Chemical Society of London.
Department of Practical Art.
Duke of Northumberland.
Entomological Society.
Ethnological Society of London.
Geological Association.
Geological Society of London.
Great Seal Patent Office.
Hakluyt Society.
Horticultural Society of London.
Hydrographical Office.
The Ibis, a Magazine of General Ornithology.
Institute of Actuaries of Great Britain and Ireland.
Institution of Civil Engineers.
Library of the Hon. the East India Company.
Library of Committee of Privy Council for Trade.
Library of Corporation of City of London.
Library of the House of Commons.
Linnæan Society.
London and Middlesex Archæological Society.
London, Edinburgh, and Dublin Philosophical Magazine.
London Institution (Finsbury Circus).
London Library.
London Mechanics' Institution.
Meteorological Society.
Microscopical Society.
Museum of Practical Geology.
National Association for the Promotion of Social Science.
Nautical Almanac Office.
Numismatic Society.
Palæontographical Society.
Pharmaceutical Society.

Mauritius—Société d'Histoire Naturelle de l'Isle Maurice.

St. Helena—St. Helena Library.

ASIA.

Allahabad—Mission College.

Batavia—Bataviaasch Genootschap van Kunsten en Wetenschappen.

Geneeskundige Vereeniging in Nederlandsch Indie
(Medical Association).

Natuurkundige Vereeniging in Nederlandsch Indie.

Nederlandsch Indische Maatschappij van Nijverheid
(Industrial Society).

Bombay—Bombay Government.

Bombay Mechanic's Institution.

Geographical Society.

Magnetical and Meteorological Observatory.

Royal Asiatic Society.

Calcutta—Asiatic Society.

Agricultural and Horticultural Society of India.

Geological Survey of India.

Medical and Physical Society.

Ceylon—Asiatic Society.

Batticotta Seminary.

Hong Kong—Asiatic Society of China.

Madras—Literary Society.

Observatory.

Manilla—Royal Economical Society of the Phillippine Islands.

Neilgherries—Public Library.

Rourkee—Thomason College.

Shanghai—Royal Asiatic Society of China (North China Branch).

AUSTRALIA.

Hobarton (*Tasmania*)—Magnetic and Meteorological Observatory.

Mechanics' Institute.

- Peebles**—The Chambers Institution.
Penzance—Royal Geological Society of Cornwall.
Plymouth—Plymouth Museum.
Red Hill—R. Carrington's Observatory.
St. Andrews—University Library.
Salford—Salford Borough Royal Museum and Library.
Southampton—Ordnance Trigonometrical Survey of Great Britain and Ireland.
Stonyhurst—Stonyhurst College.
Taunton—Somersetshire Archæological and Natural History Society.
Woolwich—Royal Military Academy.
 Royal Artillery Institution.
York—York Philosophical Society.

GREECE.

- Athens**—Observatory.
 University Library.

TURKEY.

- Belgrad** (*Serbia*)—Drushtvo srbske Slovesnosti (Society of Serbian Literature).
 Praviteljstvena Biblioteka (State Library).
 Serbische Literatur Gesellschaft.
Constantinople—His Imperial Majesty the Sultan.
 Société Orientale de Constantinople.

AFRICA.

- Cape Town**—Public Library.
 Royal Observatory.
 South African Museum.
Constantine—Société Archéologique de la Province de Constantine.
Grand Cairo—Bibliothèque Centrale.
 The Egyptian Society.
Liberia—Government Library.

Rio Janeiro (*Brazil*)—British Library.

Historical and Geographical Institute of Brazil.

Imperial Brazilian Historical Society.

Nautical Observatory.

Royal Geographical Society.

Sociedad Auxiliadora de Industria Nacional.

Santiago (*Chile*)—Academia Militar.

Biblioteca Nacional.

El Plano Topographico.

Ministro de Instruccion Publico.

Observatorio Nacional de Santiago.

Universidad de Chile.

APPENDIX.

RUSSIA.

Riga—Technischer Verein.

St. Petersburg—Russian Entomological Society.

Warschau—Spolka jedwabnicza polska. (Société Séricicole de Pologne.)

GERMANY including AUSTRIA and PRUSSIA.

Augsburg—Redaction der Wochenschrift für Thierheilkunde und Viehzucht.

Berlin (*Prussia*)—Congress deutscher Volkswirthe.
Revisions-Collegium für Landes-Cultur-Sachen.
Zoologisches Museum der K. Universität zu Berlin.

Curden—Navigations-Schule.

Kassel (*Hessia*)—Zeitschrift für Malacozoologie.

Hannover (*Hannover*)—Architecten- und Ingenieur-Verein für das Königreich Hannover.
Historischer Verein für Niedersachsen.

Hohenheim (*Württemberg*)—Académie Agronomique de Hohenheim.

Jena (*Saxe-Weimar*)—Landwirthschaftliche Institute.

Laibach (*Austria*)—Handels- und Gewerbekammer für das Kronland Krain.
Juristische Gesellschaft.

K. K. Landwirthschafts-Gesellschaft in Krain.

Landshut (*Bavaria*)—Historischer Verein für Niederbaiern.

Leipzig—Verein von Freunden der Erdkunde zu Leipzig.
Redaction des Magazins für die Literatur des Auslandes (Jos. Lehmann).

- München** (*Bavaria*)—Baierische Gartenbau-Gesellschaft.
- Neubrandenburg** (*Mecklenburg*)—Versammlung Meklenburgischer Ornithologen.
- Nürnberg** (*Bavaria*)—Redaction der Zeitschrift Pomona (Fr. J. Dochnahl).
- Pesth** (*Austria*)—Magyar Királyi Tudományos Egyetem Tanácsa (Hungarian University).
- Prag** (*Austria*)—Verein für Geschichte der Deutschen in Böhmen.
- Stuttgart** (*Württemberg*)—Red. der Monatschrift für Pomologie und prakt. Obstbau (J. G. C. Oberdieck and E. Lucas).
- Wiesbaden** (*Nassau*)—Ackerbaugesellschaft des Herzogthums Nassau.
- Wismar** (*Mecklenburg*)—Meklenburg. Patriot. Verein.

SWITZERLAND.

- Bern**—Oekonomische Gesellschaft des Kantons Bern.
Red. der Bern'schen Blätter für Landwirthschaft.
Schweizerische Entomologische Gesellschaft.
- Lausanne**—Société du Cercle Littéraire de Lausanne.

BELGIUM.

- Bruxelles**—Société Royale d'Horticulture de Bruxelles.

FRANCE.

- Alençon**—Société d'Horticulture de l'Orne.
- Amiens**—Société d'Agriculture.
- Arras**—Société Central d'Agriculture du Pas-de-Calais.
- Auch**—Société d'Agriculture du Gers.
- Aurillac**—Société Académique.
- Auxerre**—Société Centrale de l'Yonne pour l'Encouragement de l'Agriculture.
- Baguères-de-Bigorre** (*Hautes-Pyrénées*), Société d'Agriculture.

- Beaune**—Comité d'Agriculture de l'Arrondissement de Beaune.
Bergerac—Société d'Horticulture de Bergerac.
Besançon—Société de Médecine.
Blois—Société d'Agriculture de Loir-et-Cher.
Société des Sciences et des Lettres.
Bordeaux—Société d'Agriculture de la Gironde.
Boulogne—Société d'Agriculture et des Arts.
Bourg—Société d'Agriculture, des Sciences, des Lettres et Arts
de l'Ain.
Société d'Horticulture.
Bourges—Société d'Agriculture du Cher.
Brest—Société d'Emulation.
Caen—Société Vétérinaire du Calvados.
Cahors—Société Agricole et Industrielle.
Cambrai—Société d'Emulation.
Carcassonne—Société d'Agriculture.
Chalon-sur-Saône—Société d'Agriculture et d'Horticulture
de Chalon-sur-Saône.
Chambéry—Société d'Agriculture de la Province de Savoie
propre.
Chartres—Société d'Agriculture d'Eure et Loir.
Châteauroux—Société d'Agriculture de l'Indre.
Chaumont—Société d'Agriculture de la Haute-Marne.
Clermont-Ferrand—Société d'Agriculture du Pay-de-Dôme.
Coulomniens—Société d'Horticulture de l'Arrondissement de
Coulomniens.
Digne—Société Centrale d'Agriculture et d'Acclimatation des
Basses-Alpes.
Dijon—Société d'Horticulture et d'Arboriculture de la Côte d'Or.
Comité Central d'Agriculture de la Côte d'Or.
Dole—Société d'Agriculture de l'Arrondissement de Dôle.
Douai—Société d'Agriculture, Sciences et Arts.
Draguignan—Société d'Agriculture et du Commerce du Var.
Société d'Études Scientifiques et Archéologiques.
Epinal—Société d'Emulation des Vosges.

Falaise—Société Académique, Agricole et Industrielle.

Foix—Société Agricole, Littéraire et Industrielle de l'Ariège.

Gap—Société d'Emulation des Hautes Alpes.

Grenoble—Académie Royale.

Journal d'Agriculture, le Sud-Est.

Société d'Agriculture de l'Isère.

Société Zoologique d'Acclimatation pour la région
des Alpes.

Guéret—Société des Sciences Naturelles et Archéologiques de
la Creuse.

Limoges—Société des Sciences, Agriculture et Arts de la Haute-
Vienne.

Louhans—Société d'Agriculture de Louhans.

Lous-le-Saulnier—Société d'Emulation du Jura.

Marseille—Société d'Agriculture des Bouches-du-Rhône.

Société d'Horticulture.

Société du Jardin Zoologique de Marseille.

Mayenne—Société d'Agriculture de l'Arrondissement de
Mayenne.

Meaux—Société d'Agriculture Sciences et Arts.

Société d'Horticulture.

Melun—Société d'Agriculture de Seine-et-Marne.

Société des Sciences Horticoles.

Meulan—Société d'Horticulture.

Mezieres—Société d'Agriculture des Ardennes.

Montauban—Société d'Horticulture et d'Acclimatation de
Tarn et Garonne.

Société des Sciences, Agriculture et Belles-Lettres
de Tarn-et-Garonne.

Mont-de-Marsan—Société d'Agriculture des Landes.

Montpellier—Société d'Agriculture de l'Hérault.

Messenger Agricole, Revue des Associations et des
Intérêts Agricoles du Midi.

Nancy—Société Nationale des Sciences.

Société Régionale d'Acclimatation pour la Zone du
Nord-Est.

- Nantes**—Société Académique.
Société Nantaise d'Horticulture.
- Nevers**—Société d'Agriculture et d'Horticulture de la Nièvre.
- Nice**—Société Centrale d'Agriculture, d'Horticulture et d'Acclimatation.
- Nîmes**—Société d'Agriculture du Gard.
- Niort**—Société d'Agriculture.
Société d'Horticulture des Deux-Sèvres.
Société de Statistique des Deux-Sèvres.
- Orléans**—Société d'Horticulture.
- Paris**—Athénée des Arts.
Bibliothèque du Luxembourg.
Journal des Haras. ●
Société de l'Industrie Minérale.
Société Protectrice des Animaux.
- Périgueux**—Société d'Agriculture, Sciences et Arts de la Dordogne.
- Perpignan**—Société d'Agriculture des Pyrénées-Orientales.
- Poitiers**—Société d'Agriculture, Belles-Lettres, Sciences et Arts de Poitiers.
Société des Antiquaires de l'Ouest.
- Privas**—Société d'Agriculture l'Ardèche.
- Provins**—Société d'Agriculture de Provins.
- Puy**—Société d'Agriculture, Sciences, Arts et Commerce de la Haute-Loire.
- Rennes**—Société Académique.
Société d'Horticulture d'Ille-et-Vilaine.
- Roanne**—Société d'Agriculture et de Statistique de Roanne.
- Rochefort**—Société d'Agriculture.
- La Rochelle**—Société d'Agriculture.
- Rouen**—Société d'Horticulture de la Seine-Inférieure.
- Saint-Brieuc**—Société d'Emulation des Côtes du Nord.
- Saintes**—Société d'Agriculture.
- St. Etienne**—Société Industrielle.
- Saint-Omer**—Société d'Agriculture de l'Arrondissement de Saint-Omer.

Sens—Société Eduenne.

Strasbourg—Société d'Horticulture du Bas-Rhin.

Tonnerre—Société d'Agriculture et de l'Industrie de Tonnerre.

Toulon—Société Académique.

Toulouse—Société d'Agriculture de la Haute-Garonne.

Société d'Horticulture de la Haute-Garonne.

Société des Jeux Floraux.

Troyes—Société d'Horticulture de l'Aube.

Valence—Société de Statistique de la Drôme.

Verdun—Société d'Agriculture de Verdun.

Versailles—Société d'Agriculture et des Arts de Seine-et-Oise.

Institut Agronomique.

Société d'Horticulture de Seine-et-Oise.

Vesoul—Société d'Agriculture de la Haute-Saône.

ITALY.

Genova—Museo Zoologio della Reale Università di Genova.

Milano—Accademia Fisico-medico-statistico di Milano.

Ravenna—Società di Lettura.

Verona—Società Letteraria.

SPAIN.

Barcelona—Instituto Agricola Catalan de San-Isidro.

Madrid—Real Observatorio.

San Fernando—Real Academia de San Fernando.

Valencia—Société d'Agriculture de Valence.

GREAT BRITAIN.

Armagh—Public Library.

Birmingham—Institution of Mechanical Engineers.

Bowdon (Cheshire)—Bowdon and Altrincham Entomological Society.

London—Association of Foremen Engineers.
 British Horological Institute.
 Chronological Institute of London.
 Civil and Mechanical Engineers' Society.
 Corps of Royal Engineers.
 Institution of Naval Architects.
 Royal National Life-Boat Institution.
 Surtees' Society.

Plymouth—Plymouth Institution.

Wales—Cambrian Archæological Association.

AFRICA.

Alexandria—Société Impériale d'Acclimatation pour l'Egypte.

Alger (Algérie)—Société d'Agriculture d'Alger.

Cape Town—South African Quarterly Journal.

Mauritius—Chambre d'Agriculture de Port Louis.
 Royal Society of Arts and Sciences.

ASIA.

Bombay—Literary Society of Bombay.

Calcutta—Calcutta Journal of Natural History.

Canton—Chinese Repository.

Singapore—Journal of Indian Archipelago (Ed. J. R. Logan).

Sydney—New South Wales Magazine.

AUSTRALIA.

Adelaide—Adelaide Library.

Wellington—New Zealand Magazine.

722. **Firenze.** Ac. economico-agraria. 26.
 732. **Milano.** A. Agricola Lombarda. 26.
 762. **Pesaro.** Ac. Agraria. 27.
 775. **Torino.** Ac. Agricoltura. 27.
 782. **Udine.** Ass. Agraria Friulana. 27.
 804. **Bath.** Agricultural Societ. 28.
 806. **Belfast.** Chemico-Agricultural Soc. 28.
 817. **Cirencester.** R. Agricultural College. 29.
 838. **Edinburgh.** H. & Agricultural Soc. 29.
 926. **London.** R. Agricultural Soc. 32.
 1022. **Honolulu.** R. Hawaiian Agric. Soc. 35.
 1035. **Mexico.** Escuela de Agricul. 35.

Agriculture, Arts, and Commerce.

602. **Angoulême.** Soc. Agriculture, Arts, Commerce. 22.
 617. **Caen.** Soc. d'Agriculture, Commerce. 22.
 788. **Verona.** Ac. d'Agricoltura. Commercio ed Arti. 28.

Agriculture and Horticulture.

996. **Calcutta.** Agricult. and Horticult. Soc. 34.
 1018. **Sydney.** A. Hortie. Agricult. Soc. 35.

Agriculture. *See* **Acclimation.**

Agriculture, Arts, Belles-Lettres, and Science. *See* **Science.**

Agriculture, Arts, Industry, Science. *See* **Science.**

Agriculture, Arts, Science. *See* **Science.**

Agriculture, Commerce, and Science. *See* **Science.**

Apothecaries. *See* **Pharmacy.**

Amusement and Utility.

113. **Arnheim.** G. Nut en Vergenoegen. 6.
 541. **Basel.** Ges. z. Beförd. d. Guten und Gemeinnützigen. 20.
 556. **Genève.** Soc. Gen. d'Utilité publiq. 20.

Anatomy.

188. **Berlin.** Red. d. Archivs für path. Anat. 9.

Anatomy. *See* **Medicine and Surgery.**

Animals, Protection of.

161. **Altona.** Thierschutz-Verein. 8.
 321. **Hamburg.** Thierschutz-Verein. 13.

Anthropology. *See* **Ethnology.**

Antiquities and Archæology **General.**

1. **Scandinavia.** K. Norræra Fornrædsla-lag. 1.
 21. **Christiania.** F. N. Fortidsminde-Bevaring. 2.
 35. **Kjøbenhavn.** K. Nordiske Oldskrift-Selsk.
 84. **St. Petersburg.** I. Arkheologit. Obs.
 103. **Vilna.** Arkheologhitsheskaja Komm.
 212. **Bonn.** Ver. v. Alterthumsfreunden.
 260. **Dresden.** K. S. V. f. vaterländ. Alterthemer. 11.
 313. **Halle.** T.-S. Ver. vaterländ. Alterthumkunde. 13.
 334. **Hohenleuben.** Voigtländischer Alterthumsforsch. Ver. 13.
 342. **Karlsruhe.** B. Alterthums-Ver. 14.
 351. **Kiel.** S. H. L. Ges. f. vaterl. Alterth.
 398. **Lüneburg.** Alterthums-Ver. 15.
 489. **Stuttgart.** W. Alterthums-Verein.
 540. **Basel.** Ges. f. vaterländ. Alterthümer.
 563. **Lausanne.** Soc. d'Hist. Suisse Romande. 21.
 572. **Zürich.** Ges. f. Vaterländ. Alterth.
 575. **Anvers.** Acad. d'Archéologie. 21.
 598. **Amiens.** Soc. des Antiquaires. 22.
 608. **Béziers.** Soc. Archéologique. 22.
 618. **Caen.** Soc. des Antiquaires. 22.
 645. **Montpellier.** Soc. Archéologique. 23.
 653. **Orleans.** Soc. Archéologique. 24.
 674. **Paris.** Soc. des Antiquaires. 24.
 683. Soc. Fr. des Monuments Hist.
 756. **Napoli.** R. Ac. Ercolanese di Archeol.
 767. **Roma.** Ac. Romana di Archeologia.
 812. **Cambridge.** Camb. Antiquarian Soc.
 826. **Dublin.** I. Archæolog. and Celtic Soc.
 847. **Edinburgh.** Soc. of Antiquaries. 29.
 863. **Kilkenny.** K. and S. I. Archæol. Soc.
 879. **London.** Archæological Ins. 30.
 885. British Archæological Ass.
 909. L. and M. Archæolog. Soc.
 936. Soc. Antiquaries. 32.
 949. **Newcastle-on-Tyne.** Antiq. Soc.
 979. **Constantine.** Soc. Archéologique. 33.

Antiquities, Belles-Lettres, and History.

10. **Stockholm.** K. Vitterhets- Hist. Antiquitets. 1.

Antiquities and History.

61. **Moskwa.** I. Istorii i Drevnostei Ross.
 71. **Odessa.** O. O. Istorii i Drevnostei.
 77. **Riga.** Ges. f. Gesch. u. Alterthumsk.

444. Potsdam. Botanischer Ver. 17.
 460. Regensburg. K. botanische Ges. 17.
 586. Bruxelles. Société de Flora. 21.
 676. Paris. Société Botanique. 24.
 834. Edinburgh. Botanical Society. 29.
 929. London. Royal Botanic Society. 32.

Botany. *See Horticulture.*

Botany and Horticulture.

253. Dresden. Flora: Ges. f. Botanik und Gartenbau. 11.

Botany and Zoology.

520. Wien. K. K. Zoologisch-Botan. Ges. 19.
 824. Dublin. D. Univ. Zool. Botan. Assoc. 29.

Charts, School of.

679. Paris. Soc. de l'École des Chartes. 24.

Chemistry.

822. Dublin. Chemical Society. 29.
 890. London. Chemical Society. 31.

Chemistry and Agriculture. *See Agriculture.*

Chirurgie. *See Medicine and Surgery.*

Commerce.

322. Hamburg. Ver. f. Handelsfreiheit. 13.
 610. Bordeaux. Chambre de Commerce. 22.

Commerce. *See Agriculture; Science; Industry and Trade.*

Crowned Heads and State Governments.

81. St. Petersburg. Emperor of Russia. 4.
 169. Berlin. Seine Majestät der König. 5.
 252. Dresden. Seine Majestät der König. 11.
 476. Stuttgart. Seine Majestät der König. 18.
 503. Wien. Seine Majestät der Kaiser. 19.
 545. Bern. Conseil Fédéral Suisse. 20.
 654. Paris. Sa Majesté Imp. l'Empereur. 24.
 875. London. Her Majesty the Queen. 30.
 887. British Government. 31.
 974. Constantinople. His Imp. Majesty. 33.
 990. Bombay. Bombay Government. 34.

Culture. *See Mental Culture.*

Deaf and Dumb.

72. Odessa. Ouchilishtohé Glucho-nem. 4.
 269. Emden. Taubstumm-Anst. 11.
 286. Friedberg. Taubstumm-Anstalt. 12.

385. Leipzig. Taubstumm-Anstalt. 15.
 570. Yverdon. Institut des Sourds-Muets. 21.

Dumb. *See Deaf and Dumb.*

Dentistry.

504. Wien. C. Ver. Deutscher Zahnärzte. 13.

East India Co. *See Libraries, London.*

Economy (Public Welfare).

88. St. Petersburg. Volnoe Ekonomicheskoe Obs. 5.
 127. Haarlem. N. Ökonomische Ges. 3.
 259. Dresden. K. S. Ökonomische Ges. 11.
 310. Hall. Ver. z. Durchforschung Tirols und Vorarlbergs. 12.
 338. Jauer. Ökonomisch-patriotische Ges. 15.
 450. Prag. K. K. Patriotisch-ökonomische Ges. 17.
 456. Premslaff. P. Ökonomische Ges. 17.
 492. Trier. Ges. f. nützliche Forschungen. 13.
 536. Zara. Società Economica. 20.
 556. Genève. Soc. Genev. d'utilité Publique. 20.
 1004. Manilla. Royal Economical Soc. 34.
 1023. Bogota. Soc. Econ. de Ami. del País. 35.
 1025. Caracas. Soc. Econ. de Ami. del País. 35.
 1028. Guatemala. Soc. Econ. de Ami. del País. 35.
 1029. Habana. R. Soc. Econ. de la Hab. 35.

Economy and Physics.

366. Königsberg. O. Physikalisch-ökonomische Ges. 14.

Economy, Rural. *See Agriculture.*

Education. *See Mental Culture; Public Instruction.*

Engineering.

118. Delft. K. Akad. burgerlijke Ingenieurs. 4.
 121. s'Gravenhage. K. Inst. Ingenieurs. 4.
 196. Berlin. Ver. Deutsch. Ingenieurs. 9.
 262. Dresden. S. Ingenieur-Ver. 11.
 522. Wien. Österr. Ingenieur-Verein. 19.
 903. London. Inst. Civil Engineers. 31.
 964. Southampton. Ordn. Trigon. Surv. 34.

Engineering. *See Artillery.*

Engineering, Mining.

95. St. Petersburg. Shtab Korpusa gornyykh Ingeneroff. 5.
 220. Breslau. K. P. Ober-Berg-Amt. 10.
 221. S. Ver. f. Berg-und Hüttenk. 10.

berg K. S. Bergakademie. 12.
 z. Geognostisch-Montanist. Ver. 12.
 himshal. Montanistischer Ver. 14.
 n. C. d. Allg. Versamml. v. Berg-und
 Hüttenmännern. 19.
 s. École Imp. des Mines. 24.
 xico. Colegio de Minerea. 35.

ology.

avenhage. N. Entomolog. Ver. 6.
 in. Entomologischer Ver. 8.
 lau. Ver. f. schl. Insektenkunde. 10.
 tin. Entomologischer Verein. 18.
 n. Red. d. Entomolog. Monatsschr.
 19.
 s. Soc. Entomologique. 24.
 don. Entomological Soc. 31.
 ord. O. Univ. Entomological Soc. 32.

ogy (and Anthropology).

s. Soc. d'Anthropologie. 24.
 don. Aborigines Protection Soc. 30.
 Ethnological Soc. 31.

arts.

ino. R. Acc. di Belle Arti. 26.
 a. British Ac. of Fine Arts. 27.
 ezia. Acc. di Belle Arti. 27.
 rid. Ac. de las tres Nobles Artes. 28.
 burgh. R. Inst. for Encour. of Fine
 Arts. 27.

Economy. See Agricul- e.

s, Botanical. See Botan- l Gardens.

s, Zoological. See Zoologi- Gardens.

phy.

tsk. Soc. géographique. 3.
 Petersburg. I. Russkoe Geographit-
 sheskoe Obs. 5.
 s. Soc. Géographique. 5.
 in. Ges. für Erdkunde. 8.
 nstadt. Ver. für Erdkunde, etc. 11.
 ia. Geographische Anstalt. 12.
 mar. Geographisches Institut. 19.
 n. K. K. Geographische Ges. 19.
 eve. Soc. de Géographie. 21.
 celles. Établissement Geograph. 21.
 s. Dépôt des Cartes et Plans. 24.
 Soc. de Géographie. 24.
 ion. R. Geographical Soc. 32.

992 Bombay. Geographical Society. 34.
 1042. Rio Janeiro. R. Geographical Soc. 36.

Geography and History.

1039. Rio Janeiro. Histor. Geograp. Inst. 36.

Geography and Statistics.

280. Frankfurt-am-Main. V. f. Geographie
 und Statistik. 12.
 1036. Mexico. Soc. Mex. Geografia y Estadis-
 tica. 35.

Geology.

90. St. Petersburg. K. Russ. Mineralog. Ges.
 5.
 125. Haarlem. Geologische Commissie. 6.
 173. Berlin. Geologische Ges. 8.
 232. Brünn. W. V. z. geol. Durchforschung.
 10.
 247. Darmstadt. M.-geologischer Ver. 11.
 303. Grätz. Geognostisch-Montanist. Ver. 12.
 433. Pesth. Geologische Ges. 17.
 511. Wien. K. K. Geolog. Reichsanstalt. 19.
 685. Paris. Soc. Géologique. 25.
 713. Bologna. R. Istituto Geologico. 26.
 743. Milano. Società Geologica. 26.
 825. Dublin. Geological Society. 29.
 837. Edinburgh. Geological Society. 29.
 856. Glasgow. Geological Soc. 30.
 864. Leeds. Geological and Polytech. Soc. 30.
 868. Liverpool. Geological Society. 30.
 895. London. Geological Assoc. 31.
 896. Geological Society. 31.
 916. Mus. Practical Geology. 31.
 943. Manchester. Geological Society. 32.
 959. Penzance. R. Geological Soc. 33.
 997. Calcutta. Geological Survey. 34.

History.

142. Utrecht. Historisch Genootschap. 7.
 162. Ansbach. Historischer Ver. 8.
 164. Augsburg. Historischer Ver. 8.
 288. Giessen. Historischer Ver. 12.
 304. Grätz. Historischer Ver. 12.
 323. Hamburg. Ver. für Hamburg. Gesch. 13.
 333. Hermannstadt. Ver. Landeskunde. 13.
 349. Kassel. Ver. K. Landeskunde. 14.
 352. Kiel. S. H. L. Ges. vaterländische Gesch.
 14.
 355. Klagenfurt. Geschichts-Ver. 14.
 363. Köln. Hist. Ver. für den Niederrhein. 14.
 376. Laibach. Histor. Verein. 15.
 395. Lubeck. Ver. für Lübeckische Ges. 15.
 412. München. Historischer Ver. 16.
 458. Regensburg. Historischer Ver. 17.

472. **Speier.** Historischer Ver. 18.
 532. **Würzburg.** Historischer Verein. 20.
 668. **Paris.** Institut Historique. 24.
 779. **Torino.** R. D. Studi di Storia Patria. 27.
 798. **Madrid.** R. Ac. de la Historia. 28.
 869. **Liverpool.** Historic Soc. 30.
 1040. **Rio Janeiro.** Imp. Brazil. Hist. Soc. 36.

History. See **Antiquities.**

History, Museums of. See **Museums.**

History. See **Geography.**

History and Jurisprudence.

147. **Zwolle.** Vereen. van O. Rigt en Geschiedenis. 7.

History and Philology.

31. **Kjöbenhavn.** K. D. S. Fædrelandets Historie og Sprog. 2.

History and Statistics.

275. **Frankfurt-an-der-Oder.** Historisch-Statist. Ver. 11.

Horticulture.

199. **Berlin.** Ver. Beförd. des Gartenbaues. 9.
 215. **Braunschweig.** Garten-Verein. 10.
 243. **Darmstadt.** Gartenbau-Ver. 10.
 266. **Eldena.** Gartenbau-Ver. 11.
 272. **Erfurt.** Gartenbau-Verein. 11.
 277. **Frankfurt-am-Main.** Gartenbau-Ges. "Flora." 11.
 302. **Gotha.** Th. Gartenbau-Ver. 12.
 432. **Passau.** P. Gartenbau-Gesell. 16.
 477. **Stuttgart.** Gartenbau-Ges. "Flora." 18.
 494. **Trieste.** Gartenbau-Ges. 18.
 502. **Weimar.** Ver. f. Blumistik und Gartenbau. 19.
 509. **Wien.** K. K. Gartenbau-Ges. 19.
 611. **Bordeaux.** Société d'Horticulture. 22.
 648. **Moulins.** Soc. d'Horticulture. 23.
 686. **Paris.** Soc. I. C. d'Horticulture. 25.
 687. Soc. d'Horticulture de la Seine. 25.
 835. **Edinburgh.** Cgl. Horticultural Soc. 29.
 899. **London.** Horticultural Soc. 31.

Horticulture. See **Agriculture.**

Horticulture. See **Botany.**

Horticulture and Pomology.

159. **Altenburg.** Pomologische Ges. 8.
 408. **Meiningen.** Ver. f. Pomologie u. Gartenbau. 16.

Horticultural Gardens. See **Botanical Gardens.**

Horticultural Schools.

68. **Odessa.** Glavnoé Outehilitché Sadovodstva. 4.

Hospitals. See **Medicine and Surgery.**

Hydraulics.

637. **Lyon.** Soc. Hydrométrie. 23.

Hydrography.

32. **Kjöbenhavn.** K. D. Søkort-Archiv. 1.
 82. **St. Petersburg.** Hidrog. Dep. Monkage Minist. 4.
 900. **London.** Hydrographical Office. 31.

Hydrography. See **Astronomy.**

Industry. See **Economy; Science in General.**

Industry, Popular.

111. **Amsterdam.** Vereen. Volksvlijt. 6.
 172. **Berlin.** C. Ver. f. das Wohl der arbeitenden Klassen. 8.
 178. Gewerbe-Institut. 8.
 200. Ver. z. Beförd. d. Gewerbel. 1.
 219. **Breslau.** Gewerbe-Verein. 10.
 245. **Darmstadt.** G. H. Gewerbe-Ver. 11.
 256. **Dresden.** Gewerbe-Verein. 11.
 287. **Fürth.** Gewerbe-Verein. 12.
 400. **Mainz.** G. Handels-Kammer. 15.
 447. **Prag.** B. Gewerbe-Verein. 17.
 479. **Stuttgart.** Gewerbe-Verein. 18.
 521. **Wien.** N. Gewerbe-Ver. 19.
 527. **Wiesbaden.** Gewerbe-Verein. 19.
 649. **Mulhouse.** Société Industrielle. 23.
 680. **Paris.** Soc. d'E. l'Industrie Nationale. 24.
 711. **Bergamo.** Soc. Industriale Berg. 25.
 989. **Batavia.** Ned. Ind. Maatschappij van Nijverheid. 34.
 1043. **Rio Janeiro.** Soc. Auxili. de Industria Nacional. 36.

Industry and Trade.

154. **Agram.** Handels und Gewerbekammer. 6.
 307. **Grätz.** S. Industrie- und Gewerbe-Ver. 12.
 325. **Hannover.** Gewerbe-Verein. 13.
 344. **Karlsruhe.** Gewerbe-Verein. 14.
 356. **Klagenfurt.** K. Industrie u. Gewerbe-Ver. 14.
 390. **Linz.** Handels- u. Gewerbekammer. 11.

439. **Pesth.** P. Handels-Akademie. 17.
 482. **Stuttgart.** K. C. f. Gewerbe und Handel. 18.
 512. **Wien.** K. K. Handels-Ministerium. 19.
 530. **Worms.** G. Handels-Kammer. 20.
 884. **London.** Board of Trade. 31.

Industry and Useful Knowledge.

153. **Aachen.** V. nützliche Wissensch. und Gewerbe. 8.

Journals of Universities.

2. **Skandinavia.** Nordisk Universitets-Tidskrift. 1.

Jurisprudence. See History.**Knowledge, Useful. See Industry.****Libraries.**

13. **Stockholm.** Riksbiblioteket. 1.
 19. **Westerås.** Bibliot. Arosiensis. 2.
 26. **Reykjavik.** Islands Stiftingskasafn. 2.
 30. **Kjöbenhavn.** K. Bibliothek. 2.
 69. **Odessa.** Gorodskaja Poblitchnaja Biblioteka. 4.
 73. **Orenburg.** Bibliot. publique. 4.
 76. **Riazan.** Publitschnaja Biblioteka. 4.
 85. **St. Petersburg.** 1. Publitschnaja Biblioteka. 5.
 99. **Tiflis.** Bibliot. Publique. 5.
 102. **Toula.** Bibliot. Publique. 5.
 110. **Amsterdam.** Stadsbibliotheek. 6.
 114. **Arnhem.** O. Bibliotheek. 6.
 115. **Bois-le-Duc.** Bibliotheek. 6.
 119. **Deventer.** Bibliotheek. 6.
 120. **s/Gravenhage.** K. Bibliotheek. 6.
 138. **Middelburg.** P. Bibliotheek. 7.
 179. **Berlin.** K. Bibliothek. 8.
 216. **Bremen.** Stadt-Bibliothek. 10.
 246. **Darmstadt.** G. Hof-Bibliothek. 11.
 257. **Dresden.** K. Bibliothek. 11.
 300. **Gotha.** H. Bibliothek. 12.
 316. **Hamburg.** Commerz-Bibliothek. 13.
 319. **Stadt-Bibliothek.** 13.
 326. **Hannover.** K. Bibliothek. 13.
 345. **Karlsruhe.** G. Hofbibliothek. 14.
 347. **Kassel.** K. Landes Bibliothek. 14.
 384. **Leipsic.** Stadt-Bibliothek. 15.
 388. **Lemberg.** Biblioteka Z. O. 15.
 392. **Lübeck.** Bibliothek. 15.
 415. **München.** K. Hof- und Staats-Bibliothek. 16.
 429. **Oldenburg.** G. Bibliothek. 16.
 430. **Olmütz.** K. K. Studien Bibliothek. 16.

442. **Posen.** Bibliothèque de Kurnik. 17.
 443. **Posen.** Raczyński Bibliothek. 17.
 468. **Schwerin.** R. Bibliothek. 18.
 483. **Stuttgart.** K. O. Bibliothek. 18.
 513. **Wien.** K. K. Hofbibliothek. 19.
 552. **Genève.** Bibliothèque. 20.
 562. **Lausanne.** Bibliothèque. 21.
 579. **Bruxelles.** Bibliothèque Royale. 21.
 615. **Brest.** Bibliothèque. 22.
 657. **Paris.** American Library. 24.
 658. **Bibliothèque de la Ville.** 24.
 660. **Bibliothèque Imp.** 24.
 723. **Firenze.** Biblioteca Magliab. 26.
 737. **Milano.** N. Biblioteca di Brera. 26.
 751. **Napoli.** Biblioteca Reale. 27.
 768. **Roma.** Biblioteca Vaticana. 27.
 778. **Torino.** Regia Biblioteca. 27.
 785. **Venezia.** Biblioteca Marciana. 27.
 791. **Lisboa.** Biblioteca Nacional. 28.
 795. **Madrid.** Biblioteca Real. 28.
 811. **Bristol.** City Library. 28.
 813. **Cambridge.** Cambr. Free Library. 28.
 839. **Edinburgh.** Lib. Faculty Advocates. 29.
 881. **London.** Athenaeum Club. 30.
 892. **Duke of Northumberland.** 31.
 904. **L. East India Company.** 31.
 905. **L. Comm. Privy Council for Trade.** 31.
 906. **L. Corpora'n City of Lond.** 31.
 907. **L. House of Commons.** 31.
 911. **London Institution.** 31.
 912. **London Library.** 31.
 955. **Oxford.** Oxford Free Library. 32.
 973. **Belgrad.** Praviteljstvena Biblioteka. 33.
 976. **Cape Town.** Public Library. 33.
 980. **Grand Cairo.** Bibliothèque Centrale. 33.
 982. **Liberia.** Government Library. 33.
 984. **St. Helena.** St. Helena Library. 34.
 1005. **Neillgherries.** Public Library. 34.
 1010. **Hobarton.** Public Library. 35.
 1012. **Launceston.** L. Public Library. 35.
 1037. **Paramaribo.** S. Koloniale Bibliothek. 35.
 1038. **Rio Janeiro.** British Library. 36.
 1045. **Santiago.** Biblioteca Nacional. 36.

Libraries, Naval (Russian).

41. **Cronstadt.** C. flotskaia Biblioteka. 3.
 42. **Morskaja Biblioteka.** 3.

Libraries, Gallery of Art, Museums.

867. **Liverpool.** Free Pub. Library, Mus., and Gal. of Art. 30.

888. London. British Museum. 31.
 945. Manchester. Free Lib. and Museum. 32.
 963. Salford. S. B. R. Mus. and Library. 37.

Libraries. See **Museums.**

Literature.

15. Stockholm. Svenska Akademien. 2.
 37. Kjöbenhavn. Samf. Danske Literatur
 Fremme. 3.
 75. Reval. Esth. litterarische Ges. 4.
 116. Bois-le-Duc. Soc. Littéraire. 6.
 133. Leiden. Maat. Nederlands. Letterk. 7.
 584. Bruxelles. Soc. Gens de Lett. Belges. 21.
 934. London. R. Society of Literature. 32.
 972. Belgrad. Drushtvo srbske Slovesnosti.
 33.
 1002. Madras. Literary Society. 34.

Literature. See **Art.**

Literature, Oriental. See **Oriental Societies.**

Longitudes.

661. Paris. Bureau des Longitudes. 24.

Magnetism and Meteorology (Observatories). See **Observatories.**

Mathematical Science.

112. Amsterdam. W. Gen.: "Een onvermoide
 Arbeid komt alles te boven." 6.

Marine, Committee of.

92. St. Petersburg. Morskoi-Otchenoi Co-
 mitet. 5.

Marine, Ministry of.

93. St. Petersburg. Morskoje Ministerstvo.
 5.
 670. Paris. Minist. de la Marine. 24.

Medicine and Natural History.

141. Utrecht. Archiv Beit. Natur- und Heil-
 kunde. 7.
 208. Bonn. N. G. Natur u. Heilkunde. 9.
 254. Dresden. Ges. Natur- u. Heilkunde. 11.
 289. Giessen. O. Ges. Natur- u. Heilk. 12.
 329. Heidelberg. Naturhistor.-medizin. Ver.
 13.
 441. Plauen. Ver. Natur- und Heilkunde. 17.

Medicine and Physics.

130. Hoorn. Soc. Medico-Physica. 7.

213. Braunsberg. Physikalisch-Medicin. Ges.
 9.

274. Erlangen. Physikalisch-Medicinische
 Ges. 11.

367. Königsberg. Physik.-Medicin. Ges. 14.

533. Würzburg. Physikal.-Medicin. Ges. 20.

998. Calcutta. Medical and Physical Soc. 34.

Medicine and Surgery.

14. Stockholm. Schwed. Ges. der Aertze. 1.

49. Helsingfors. Finske Läkare Sällsk. 1.

78. Riga. Ges. Praktischer Ärzte. 4.

105. Warschau. Acad. Médi.-Chirurgicale. 1.

276. Frankfurt-am-Main. Aerztlicher Ver.
 11.

452. Prag. Medicinische Facultät. 17.

480. Stuttgart. Heilgymnastisches Inst. 18.

490. W. Ärztlicher Verein. 18.

500. Weilburg. Ver. Nassauischer Ärzte. 18.

525. Wien. Red. der O. Zeit. praktische Heil-
 kunde. 19.

560. Genève. Société Médicale. 21.

620. Caen. Soc. de Médecine. 22.

644. Metz. Soc. des Sciences Médicales. 23.

656. Paris. Acad. Imp. de Médecine. 24.

688. Soc. Médicale Allemande. 25.

707. Toulouse. Soc. I. Médecine, Chirurgie et
 Pharmacie. 25.

715. Bologna. Scuola Anatomica. 26.

717. Soc. Medico-Chirurgica. 26.

727. Geneva. Ac. Medico-chirurgica. 26.

738. Milano. Ospedale Maggiore. 26.

776. Torino. Ac. R. Medico-Chirurgica. 27.

930. London. R. College of Surgeons. 32.

933. R. Med. and Chirurg. Soc. 32.

987. Batavia. Geneeskundige Vereen. 34.

Medicine and Surgery. See **Anatomy.**

Mental Culture in general. See
also **Education.**

223. Breslau. S. Ges. vaterländische Cultur
 10.

Meteorology.

143. Utrecht. K. Meteorologisch Instituut. 7.

185. Berlin. Meteorologisches Inst. 9.

689. Paris. Soc. Météorologique. 25.

840. Edinburgh. Meteorological Soc. 29.

914. London. Meteorological Soc. 31.

Meteorology and Magnetism. See
Observatories.

Microscope.

291. **Giessen.** Ver. Microscopie. 12.
 915. **London.** Microscopical Society. 31.

Military Academies, Bureaus, and Schools. See also Arms.

182. **Berlin.** K. P. Generalstab der Armee. 8.
 183. K. P. Kriegs-Akademie. 8.
 201. Vereinigte Artillerie und Ingenieur Schule. 9.
 416. **München.** K. Quartiermeister Stab. 16.
 669. **Paris.** Minist. de la Guerre. 24.
 967. **Woolwich.** Royal Military Acad. 33.
 1044. **Santiago.** Academia Militar. 36.

Mineralogy.

90. **St. Petersburg.** Kais. R. Mineralogische Ges. 5.

Mineralogy and Geology. See Geology.**Mineralogy and Zoology.**

461. **Regensburg.** Zoologisch-Mineralogischer Ver. 17.

Mines. See Engineering, Mining.**Mining Engineering. See Engineering.****Ministry of Marine. See Marine.****Ministry of Public Instruction. See Public Instruction.****Ministry of State. See State.****Ministry of War. See Military, etc.****Moral and Political Science.****Museums in general.**

20. **Bergen.** Bergensk Museum. 2.
 79. **Riga.** Museum. 4.
 261. **Dresden.** K. S. Kunst u. Wissenschaften. 11.
 359. **Klausenburg.** Erdélyi Muz. Egylet. 14.
 375. **Laibach.** Landes-Museum. 15.
 391. **Linz.** Museum Francisco-Carolinum. 15.
 393. **Lübeck.** Kunst- und Naturalien Cabinet. 15.
 394. **Lübeck.** Mus. Kunst und Natur. 15.
 437. **Pesth.** Magyar Nemzeti Museum. 17.

449. **Prag.** K. Böhmisches Museum. 17.
 466. **Salzburg.** V. Museum Carolino-Augustinum. 18.
 492. **Trieste.** Civico Museo. 18.
 629. **Douai.** Muséum d'Histoire Naturelle. 23.
 725. **Firenze.** R. Museo Fisica e Storia Naturale. 26.
 952. **Norwich.** Norfolk and Norwich Mus. 32.
 960. **Plymouth.** Plymouth Museum. 33.
 978. **Cape Town.** South African Museum. 33.
 1015. **Melbourne.** National Museum. 35.
 1034. **Mexico.** Museo Nacional. 35.

Museums of Art (Fine Arts, etc.).

175. **Berlin.** Königl. Museen. 8.

Museums of Art and Industry.

860. **Kensington.** South Kensington Mus. 30.

Museums of History.

426. **Nürnberg.** Germanisches Museum. 16.

Museums of Natural History.

135. **Leiden.** R. Mus. Natuurlijke Gesch. 7.
 292. **Giessen.** Zoologisches Museum. 12.
 516. **Wien.** K. K. Naturalien Cabinet. 19.
 659. **Paris.** Jardin des Plantes. 24.
 698. **Reims.** Mus. d'Histoire Naturelle. 25.
 735. **Milano.** Museo C. di Storia Naturale. 26.
 736. Mus. di Storia Nat. Villa. 26.
 780. **Torino.** R. Museo di Storia Naturale. 27.

Natural History in general.

36. **Kjöbenhavn.** Naturhistoriske Foren. 3.
 45. **Dorpat.** Dorpater Naturforscher-Ges. 3.
 64. **Moskwa.** Soc. Imp. Naturalistes. 4.
 80. **Riga.** Naturforschender Ver. 4.
 124. **Groningen.** G. Natuurkundig Wetenschapp. 6.
 158. **Altenburg.** Naturforschende Ges. 8.
 166. **Augsburg.** Naturhistor. Ver. 8.
 167. **Bamberg.** Naturforschende Ges. 8.
 177. **Berlin.** G. Naturforschender Freunde. 8.
 204. **Blankenburg.** Naturwissenschaftl. Ver. 9.
 207. **Bonn.** Naturhistorischer Ver. 9.
 228. **Bregenz.** Naturforschender Ver. 10.
 248. **Darmstadt.** Naturhistor. Ver. 11.
 241. **Danzig.** Naturforschende Ges. 10.
 250. **Deidesheim.** Pollichia: Naturwissenschaftl. Ver. 11.
 251. **Dessau.** Naturhistor. Ver. 11.
 255. **Dresden.** Gesellschaft "Isis." 11.
 264. **Elberfeld.** Naturwissenschaftl. Ver. 11.

268. Emden. Naturforschende Ges. 11.
 279. Frankfurt-am-Main. Senckenbergische naturforschende Ges. 12.
 283. Freiburg. Ges. Beförd. Naturwissenschaften. 12.
 293. Görlitz. Naturforschende Ges. 12.
 311. Halle. Naturforschende Ges. 13.
 312. Naturwissensch. Ver. 13.
 318. Hamburg. Naturwissenschaftl. Ver. 13.
 324. Hanau. W. Ges. gesammte Naturkunde. 13.
 327. Hannover. Naturhistor. Ges. 13.
 332. Hermannstadt. S. Ver. Naturwissenschaften. 13.
 354. Kiel. Ver. Verb. naturwissenschaftlicher Kennt. 14.
 358. Klagenfurt. Naturhistorisches Mus. 14.
 360. Klausthal. Naturwissensch. Ver. "Maja." 14.
 361. Koblenz. Naturhistorischer Ver. 14.
 362. Koburg. Ver. Naturkunde. 14.
 382. Leipzig. Naturforschende Ges. 15.
 396. Ludwigshafen. Vers. Rheinscher Naturforscher. 15.
 397. Lüneburg. Naturwissenschaftl. Ver. 15.
 399. Luxembourg. Soc. Sciences Naturelles. 15.
 401. Mainz. R. Naturforschende Ges. 15.
 403. Mannheim. Ver. Naturkunde. 15.
 404. Marburg. Ges. B. gesammten Naturwissenschaften. 16.
 409. Meissen. Naturwissenschaftliche Ges. "Isis." 16.
 422. München. Ver. für Naturkunde. 16.
 424. Neu-Brandenburg. Ver. Freunde der Naturgeschichte. 16.
 427. Nürnberg. Naturhistorische Ges. 16.
 428. Offenbach. Verein für Naturkunde. 16.
 431. Passau. Naturhistorischer Ver. 16.
 434. Pesth. Kiralyi Magyar Termeszettudományi Társulat. 17.
 453. Prag. Naturh. Ver. "Lotos." 17.
 457. Pressburg. Ver. für Naturkunde. 17.
 462. Rostock. Naturwissenschaftl. Inst. 17.
 463. M. Naturforschende Ges. 17.
 487. Stuttgart. Ver. Vaterl. Naturkunde. 18.
 529. Wiesbaden. Verein für Naturkunde. 20.
 538. V. Schweizerischer Naturf. 20.
 539. Aarau. A. Naturforschende Ges. 20.
 542. Basel. Naturforschende Ges. 20.
 544. Bern. A. S. Ges. gesammten Naturwissenschaften. 20.
 548. Naturforschende Ges. 20.
 551. Chur. Naturforschende Gesellschaft. 20.
 564. Lausanne. Soc. V. Scien. Naturelles. 21.
 566. Neuchatel. Soc. Scien. Naturelles. 21.
 567. St. Gallen. Naturwissenschaftl. Ges. 21.
 568. Sion. Soc. V. Sciences Naturelles. 21.
 569. Solothurn. Naturforschende Ges. 21.
 573. Zürich. Naturforschende Ges. 21.
 585. Bruxelles. Soc. R. Linnéenne. 21.
 590. Liège. Soc. Sciences Naturelles. 21.
 595. Abbeville. Soc. Linnéenne. 22.
 599. Amiens. Soc. Linnéenne. 22.
 614. Bordeaux. Soc. Linnéenne. 22.
 619. Caen. Soc. Linnéenne. 22.
 625. Cherbourg. Soc. Imp. Sciences Naturelles. 23.
 636. Lyon. Soc. Linnéenne. 23.
 643. Metz. Soc. d'Histoire Naturelle. 23.
 699. Reims. Soc. Sciences Naturelles. 25.
 702. Strasbourg. Soc. Sciences Naturelles. 25.
 719. Catania. Ac. G. di Scienze Naturali. 26.
 744. Milano. Soc. Ital. di Scien. Naturali. 26.
 750. Napoli. Ac. Aspiranti Naturalisti. 27.
 754. R. Ist. d'Incor. alle Scienze Naturali. 27.
 803. Berwick-on-Tweed. Berwickshire Naturalists' Club. 28.
 818. Cork. Cuvierian Society. 29.
 871. Liverpool. L. Naturalist's Field Club. 30.
 878. London. An. Mag. Natural History. 30.
 908. Linnæan Society. 31.
 944. Manchester. M. Field Naturalists' Soc. 32.
 950. Newcastle-on-Tyne. Natural History Soc. N. D. N. 32.
 953. Oxford. Ashmolean Society. 32.
 983. Mauritius. Soc. d'Histoire Naturelle. 34.
 988. Batavia. Natuurkundige Vereen. in N. I. 34.
 1024. Bogota. Soc. de Naturalistas N. G. 35.
Natural History. See **Archæology; Medicine; Museums; Science in general.**
Natural History in general; Journals.
 209. Bonn. Red. W. Archivs f. Naturgesch. 9.
 714. Bologna. Repertorium Italicum. 26.
 728. Geneva. Arch. per la Zool. l'Anat. e la Physiol. 26.
Natural Science. See **Natural History.**

Natural and Physical Science.

559. **Geneve.** Soc. Physique et d'Histoire Naturelle. 21.
 612. **Bordeaux.** Soc. Sciences Physiques et Nat. 22.
 843. **Edinburgh.** Royal Physical Soc. 29.

Nautical Almanacs. See Naval Science.**Naval Affairs. See Marine.****Naval Physicians.**

40. **Astrakhan.** O. Morskikh Wratchei. 3.
 44. **Cronstadt.** O. Morskikh Wratchei. 3.
 66. **Nicolaievsk.** O. Morskikh Wratchei. 4.
 94. **St. Petersburg.** O. Morskikh Wratchei. 5.

Naval Science.

190. **Berlin.** Red. Nautisches Jahrbuch. 9.
 496. **Trieste.** K. K. Nautische Akademie. 19.
 918. **London.** Nautical Almanac Office. 31.

Numismatics.

919. **London.** Numismatic Society. 31.

Observatories in general, especially Astronomical.

6. **Lund.** Observatoriet. 1.
 11. **Stockholm.** Observatoriet. 1.
 18. **Upsala.** Univ. Observatoriet. 2.
 23. **Christiania.** Observatorium. 2.
 28. **Kjöbenhavn.** A. Observatorium. 2.
 43. **Cronstadt.** Mors. Observatorija. 3.
 47. **Dorpat.** K. Univ.-Sternwarte. 3.
 54. **Kasan.** Observatorium. 3.
 58. **Kiew.** Observatorium. 3.
 63. **Moskwa.** Observatorium. 4.
 74. **Pulkowa.** Observatoire. 4.
 104. **Vilna.** Observatoire. 5.
 107. **Warschau.** Observatoire. 5.
 134. **Leiden.** R. Observatorium. 7.
 144. **Utrecht.** Observatorium. 7.
 160. **Altona.** Sternwarte. 8.
 195. **Berlin.** Univ.-Sternwarte. 9.
 203. **Bilk** (bei Düsseldorf). Sternwarte. 9.
 205. **Bonn.** K. Sternwarte. 9.
 211. **U.** Sternwarte. 9.
 217. **Bremen.** Sternwarte. 10.
 226. **Breslau.** U.-Sternwarte. 10.
 242. **Danzig.** Sternwarte. 10.
 297. **Göttingen.** Sternwarte. 12.
 301. **Gotha.** Sternwarte. 12.

320. **Hamburg.** Sternwarte. 13.
 369. **Königsberg.** Sternwarte. 14.
 373. **Krakau.** Sternwarte. 15.
 374. **Kremsmünster.** Sternwarte. 15.
 387. **Leipzig.** U.-Sternwarte. 15.
 402. **Mannheim.** Sternwarte. 15.
 405. **Marburg.** Sternwarte. 16.
 421. **München.** Sternwarte. 16.
 436. **Pesth.** K. K. Sternwarte. 17.
 451. **Prag.** K. K. Sternwarte. 17.
 473. **Speier.** Sternwarte des K. Lyzeums. 18.
 519. **Wien.** K. K. Sternwarte. 19.
 549. **Bern.** Sternwarte. 20.
 554. **Genève.** Observatoire. 20.
 583. **Bruxelles.** Observatoire Royal. 21.
 640. **Marseilles.** Observatoire. 23.
 672. **Paris.** Observatoire Imp. 24.
 724. **Firenze.** Osservatorio. 26.
 729. **Geneva.** Osservatorio. 26.
 739. **Milano.** Osservatorio. 26.
 747. **Modena.** Osservatorio. 26.
 752. **Napoli.** Osservatorio. 27.
 758. **Padova.** Osservatorio. 27.
 760. **Palermo.** Osservatorio. 27.
 771. **Roma.** Osservatorio Astronomico. 27.
 777. **Torino.** Osservatorio. 27.
 792. **Lisboa.** Observatory. 28.
 800. **San Fernando.** Observat. Marine. 28.
 801. **Aberdeen.** Observatory. 28.
 803. **Armagh.** Observatory. 28.
 814. **Cambridge.** Cambridge Observatory. 28.
 828. **Dublin.** Observatory. 29.
 832. **Durham.** Observatory. 29.
 842. **Edinburgh.** Royal Observatory. 29.
 857. **Greenwich.** Royal Observatory. 30.
 873. **Liverpool.** Observatory. 30.
 882. **London.** Bishop's Observatory. 30.
 925. **Redhill.** Observatory. 32.
 946. **Markree.** Observatory. 32.
 957. **Oxford.** Radcliffe Observatory. 32.
 970. **Athens.** Observatory. 33.
 977. **Cape Town.** Royal Observatory. 33.
 1003. **Madras.** Observatory. 34.
 1019. **Sydney.** Observatory. 35.
 1027. **Georgetown.** Observatory. 35.
 1041. **Rio Janeiro.** Nautical Observatory. 36.
 1048. **Santiago.** Observatorio Nacional. 36.

Observatories, Astronomical. See Observatories.**Observatories, Magnetical and Meteorological.**

50. **Helsingfors.** Magnet. meteorol. Obser. 3.

97. **St. Petersburg.** T. fisitcheskaja Observatoria. 5.
 100. **Tiflis.** Obs. Magnétique Météorolog. 5.
 507. **Wien.** K. K. C. Meteorologie u. Erd-Magnetism. 19.
 862. **Kew.** Observatory. 30.
 993. **Bombay.** Magnet. and Meteor. Obs. 34.
 1008. **Hobarton.** Magnet. Meteorol. Obs. 34.

Observatories, Physical. *See* **Observatories, Magn. and Met.**

Oriental Literature and Science.

98. **St. Petersburg.** Vostotchnoi Institut. 5.
 378. **Leipzig.** D. Morgenländische Ges. 15.
 518. **Wien.** K. K. Orientalische Akad. 19.
 665. **Paris.** É. I. S. Langues orientales vivantes. 24.
 675. Société Asiatique. 24.
 691. Soc. Orientale. 25.
 927. **London.** R. Asiatic Society. 32.
 939. Syro-Egyptian Soc. 32.
 975. **Constantinople.** Société Orientale. 33.
 981. **Grand Cairo.** The Egyptian Soc. 33.

Ornithology.

149. **Deutsche Ornithologen-Ges.** 7.
 843. **Kassel.** Red. Journs. f. Ornithologie. 14.
 901. **London.** The Ibis. 31.

Palæontology.

582. **Bruxelles.** Soc. Palæontologique. 21.
 920. **London.** Palæontographical Soc. 31.

Patents. *See also* **Technology.**

662. **Paris.** Cons. des Arts et Métiers. 24.
 897. **London.** G. Seal Patent Office. 31.

Pharmacy.

12. **Stockholm.** Pharmaceutiska Inst. 1.
 89. **St. Petersburg.** Kais. pharmaceutische Ges. 5.
 148. **Deutsche Apotheker-Verein.** 7.
 202. **Bernburg.** Apotheker-Verein. 9.
 330. **Heidelberg.** S. Apotheker Ver. 13.
 459. **Regensburg.** K. B. Apotheker Vere. 17.
 576. **Anvers.** Soc. de Pharmacie. 21.
 682. **Paris.** Société de Pharmacie. 24.
 921. **London.** Pharmaceutical Soc. 31.

Philology. *See also* **Antiquities; History.**

922. **London.** Philological Society. 32.

Philosophy, Experimental. *See* **Physical Science.**

Photography.

923. **London.** Photographic Society. 32.

Physicians. *See* **Naval Physicians.**

Physical Science. *See also* **Natural Science.**

139. **Rotterdam.** Gen. Proefondervindelijke Wijsbegeerte. 7.
 186. **Berlin.** Physikalische Ges. 9.
 278. **Frankfurt-am-Main.** Physikalischer Ver. 12.

Physical Observatories. *See* **Observatories.**

Physics. *See* **Economy; Medicine; Physical Science; Science.**

Political Science. *See* **Moral Science.**

Polytechnics. *See* **Technology.**

Pomology. *See* **Agriculture; Horticulture.**

Popular Industry. *See* **Industry.**

128. **Haarlem.** Teyler's Genootschap. 6.
 146. **Zwolle.** Overys. Vereeniging. 7.

Poultry.

295. **Görlitz.** Ver. Hühnerzucht. 12.

Printing. *See* **Booksellers.**

Prisons.

488. **Stuttgart.** Ver. für entlassene Strafgefangene. 18.

Provincial Welfare.

Psychology.

168. **Bendorf.** Ges. Psychiatrie und gerichtliche Psychologie. 8.

Public Instruction, Ministry of

91. **St. Petersburg.** Ministerstvo narodnago prosvestchenija. 5.
 671. **Paris.** Minist. de l'Instruction Publique. 24.
 1047. **Santiago.** Minis. Instrucción Publica. 36.

Quartermaster Corps. See Military.**Railroads.**

198. Berlin. Ver. Eisenbahnkunde. 9.
 486. Stuttgart. Ver. D. Eisenbahn-Verwaltungen. 18.

Rural Economy. See Agriculture.**Schools (Academies, including Gymnasias). See Universities.****Schools.**

306. Grätz. S.-S. Joanneum. 12.
 317. Hamburg. Johanneum. 13.
 435. Pesth. K. K. Obergymnasium. 17.
 517. Wien. K. K. Ober-Gymnasium. 19.
 547. Bern. Kanton-Schule. 20.
 705. Toulon. Académie Navale. 25.

Science in general (including Academies, Associations, and Societies of widest scope).

3. Skand. Naturforskeres Forsaml. 1.
 4. Göteborg. K. Vetenskaps Vitterhets-S. 1.
 7. Lund. Physiographiske Foren. 1.
 9. Stockholm. K. Vetenskaps-Akad. 1.
 17. Upsala. K. Vetenskaps-Soc. 2.
 24. Christiania. Videnskabs Selsk. 2.
 25. Trondhjem. K. N. Videnskabernes-Selsk. 2.
 33. Kjöbenhavn. K. D. Videnskabernes-Selsk. 3.
 46. Dorpat. Gelehrte Esthnische Ges. 3.
 51. Helsingfors. Soc. Scientiar. Fennica. 3.
 83. St. Petersburg. I. Akademija Nauk. 5.
 108. Amsterdam. K. Akad. Wetenschappen. 6.
 126. Haarlem. H. Maatschappij Wetenschappen. 6.
 129. Hertogenbosch. P. G. Kunsten en Wetenschappen. 7.
 137. Middelburg. Gen. der Wetenschappen. 7.
 145. Utrecht. P. U. G. Kunsten en Wetenschappen. 7.
 152. Versamml. Naturforscher und Aerzte. 8.
 181. Berlin. K. P. Ak. Wissenschaften. 8.
 233. Buda. Magyar Tudományos Akad. 10.
 271. Erfurt. Akad. Gemeinnütz. Wissenschaften. 11.
 294. Görlitz. O. Ges. Wissenschaften. 12.
 296. Göttingen. K. Ges. Wissenschaften. 12.

335. Innsbruck. Ferdinandeum. 13.
 339. Jena. K. L. C. Deutsche Akademie. 13.
 371. Krakau. C. K. Towarzystwo Naukowe Krak. 15.
 380. Leipzig. F. Jablonowski'sche Ges. 15.
 381. K. S. Ges. Wissenschaften. 15.
 413. München. K. B. Akad. Wissensch. 16.
 425. Nordhausen. Wissensch. Verein. 16.
 438. Pesth. Magyar Tudós Társaság. 17.
 448. Prag. K. B. Ges. Wissenschaften. 17.
 499. Vicenza. Accademia Olimpica. 19.
 506. Wien. K. Akad. Wissenschaften. 19.
 553. Genève. Institut National Genevois. 20.
 577. Anvers. Soc. R. des Sciences. 21.
 578. Bruxelles. Acad. R. Sciences, Lettres, Beaux-Arts. 21.
 589. Liège. Société Royale des Sciences. 21.
 592. Mons. Soc. Sciences, Arts, Lettres. 21.
 593. Inst. des Provinces de France. 22.
 594. Congrès Scientifique de France. 22.
 596. Abbeville. Soc. Imp. d'Emulation. 22.
 597. Aix. Acad. Sciences, Agriculture, Arts, Belles-Lettres. 22.
 600. Angers. Soc. d'Agric., Sciences, Arts. 22.
 601. Soc. Académique. 22.
 603. Arcueil. Société d'Arcueil. 22.
 604. Arras. Société d'Arras. 22.
 605. Bayeux. Soc. d'Agricul., Sciences, Arts, Belles-Lettres. 22.
 606. Beauvais. Soc. d'Archéologie, Sciences, Arts. 22.
 607. Besançon. A. Sciences, Belles-Lettres et Arts. 22.
 609. Bordeaux. Acad. I. Sciences, Belles-Lettres et Arts. 22.
 613. Soc. Philomathique. 22.
 616. Caen. Acad. Sciences, Arts et Belles-Lettres. 22.
 621. Chambéry. Soc. Imp. Académique. 22.
 622. Acad. Impériale. 22.
 623. Châlons-sur-Marne. Soc. d'Agricul., Commerce et Sciences. 23.
 624. Cherbourg. Soc. Académique. 23.
 626. Clermont-Ferrand. Acad. Sciences, Belles-Lettres et Arts. 23.
 627. Dijon. Acad. Sciences, Arts et Belles-Lettres. 23.
 630. Dunkerque. Soc. D. Encour. des Sciences. 23.
 631. Evreux. Soc. L. d'Agriculture, Sciences, Arts, Belles-Lettres. 23.
 632. Le Mans. Soc. d'Agriculture, Science et Arts. 23.
 633. Lille. Soc. I. Sciences, Agric., Arts. 23.

634. **Lyon.** Soc. I. Agriculture, Histoire Naturelle et Arts Utiles. 23.
635. Acad. Sciences, Belles-Lettres et Arts. 23.
638. **Mâcon.** Acad. de Mâcon. 23.
639. **Marseilles.** Acad. Sciences, Lettres et Arts. 23.
641. **Mende.** Soc. d'Agriculture, Industrie, Sciences et Arts. 23.
642. **Metz.** Acad. Impériale de Metz. 23.
646. **Montpellier.** Acad. Sciences et Lettres. 23.
650. **Nancy.** Académie de Stanislas. 24.
651. **Nîmes.** Académie du Gard. 24.
652. **Orleans.** Soc. Sciences, Belles-Lettres et Arts. 24.
667. **Paris.** Institut de France. 24.
692. Soc. Philomatique. 25.
694. Soc. Secours des Amis des Sciences. 25.
696. **Fuy.** Soc. Agric., Sciences, Arts, Commerce. 25.
697. **Reims.** Académie de Reims. 25.
700. **Rouen.** Acad. Sciences, Belles-Lettres, Arts. 25.
701. **Saint-Quentin.** Soc. A. Sciences, Arts, Belles Lettres, et Agric. 25.
703. **Strasbourg.** Soc. Sciences, Agric., Arts. 25.
704. **Tarbes.** Soc. Acad. des Hautes-Pyrénées. 25.
706. **Toulouse.** A. Sciences, Inscriptions et Belles-Lettres. 25.
708. **Tours.** Soc. Agriculture, Sciences, Arts, Belles-Lettres. 25.
709. **Troyes.** Soc. Agriculture, Sciences, Arts et Belles-Lettres. 25.
710. **Arezzo.** Ac. di Scienze, Lettere ed Arti. 25.
712. **Bologna.** Ac. delle Scienze. 26.
718. **Brescia.** Ateneo. 26.
720. **Firenze.** Ac. del Cimento. 26.
726. **Genova.** Ac. Scienze, Lettere ed Arti. 26.
731. **Lucca.** R. Ac. Lu. Scienze, Lettere ed Arti. 26.
733. **Milano.** At. di Scienze, Lettere ed Arti. 26.
741. R. Ist. n. di Scienze, Lettere ed Arti. 26.
745. Soc. pat. d'Incora. di Scienze, Lettere ed Arti. 23.
746. **Modena.** Acc. di Scienze, Lettere ed Arti. 26.
748. Soc. Ital. delle Scienze. 26.
749. **Modigliana.** Acc. Scientifico-letteraria. 27.
753. **Napoli.** R. Acc. Scienze e Belle Lettere. 27.
757. **Padova.** I. R. Acc. di Scienze, Lettere ed Arti. 27.
759. **Palermo.** Acc. Pal. di Scienze e Lettere. 27.
763. **Pisa.** Acc. Valdarnese. 27.
765. **Ravenna.** Società Ravennate. 27.
766. **Roma.** Acc. Pontificia Nuovi Lincei. 27.
770. Correspons. Scientifica. 27.
772. **Siena.** Acc. delle Scienze. 27.
774. **Torino.** Acc. Reale delle Scienze. 27.
784. **Venezia.** Ateneo Veneto. 27.
786. I. R. Ist. di Scienze, Lettere ed Arti. 28.
790. **Lisboa.** Acad. Real das Sciencias. 28.
796. **Madrid.** R. Ac. de Ciencias. 28.
802. **Aberdeen.** Philosophical Society. 28.
805. **Belfast.** Belfast Institution. 28.
808. Nat. Hist. and Philos. Soc. 28.
810. **Bristol.** B. Inst. for the Adv. of Science, Literat. and Fine Arts. 28.
820. **Cork.** Royal Cork Institution. 29.
823. **Dublin.** D. Univ. Philosophical Soc. 29.
829. Royal Dublin Soc. 29.
830. Royal Irish Academy. 29.
836. **Edinburgh.** Ed. New Philos. Journ. 29.
845. Royal Society. 29.
853. **Glasgow.** Andersonian Institute. 30.
854. Philosophical Society. 30.
858. **Hull.** Royal Institution. 30.
859. **Isle of Wight.** Philos. and Scientific Soc. 30.
865. **Leeds.** L. Philos. Literary Soc. 30.
866. **Leicester.** L. Lit. and Philos. Soc. 30.
870. **Liverpool.** Literary and Philos. Soc. 30.
874. Royal Institution. 30.
886. **London.** B. As. for Advancement of Science. 31.
910. Lond. Ed. Dub. Philosophical Mag. 31.
932. R. Institution of G. B. 32.
935. Royal Society. 32.
942. **Manchester.** Lit. and Philos. Soc. 32.
948. **Newcastle-upon-Tyne.** Lit. and Philos. Soc. 32.
958. **Peebles.** Chambers Institution. 33.
968. **Woolwich.** Royal Artillery Inst. 33.
969. **York.** York Philosophical Soc. 33.
986. **Batavia.** B. Gen. Kunsten en Wetenschappen. 34.
994. **Bombay.** Royal Asiatic Society. 34.

995. Calcutta. Asiatic Society. 34.

999 Ceylon. Asiatic Society. 34.

1001. Hong Kong. Asiatic Soc. China. 34.

1007. Shanghai. R. Asiatic Soc. China. 34.

1011. Hobarton. Royal Soc. of Tasmania. 35.

1014. Launceston. Royal Soc. (branch). 35.

1016. Melbourne. Philosophical Soc. 35.

1020. Sydney. Philosophical Soc. 35.

Science, Moral and Political. *See* Moral.

Science, Natural. *See* Natural.

Science, Physical. *See* Physical.

Science, Social. *See* Social.

Scientific Associations. *See* Science.

Sheep.

454. Prag. Schafzüchter-Verein. 17.

Silkworm.

446. Potsdam. Ver. Beförd. Seidenbaues. 17.

647. Montpellier. Soc. G. d'Encour. à la Sericulture. 23.

Smithsonian Agents. *See* Agents.

Social Science.

917. London. Nat. Ass. Promotion of Social Science. 31.

State Governments. *See* Crowned Heads.

State, Ministry of.

417. München. K. Staats-Ministerium. 16.

485. Stuttgart. K. Staats Archiv. 18.

Statistics. *See also* Geography.

96. St. Petersburg. Statisticheskii Tsentralnii Komitet. 5.

191. Berlin. Red. Statist. Central-Archiv. 9.

192. Statistisches Bureau. 9.

197. Ver. deutsche Statistik. 9.

263. Dresden. Statistisches Bur. 11.

328. Hannover. Statistisches Bureau. 13.

467. Schwerin. G. Statistisches Bureau. 18.

508. Wien. K. K. Dir. Administrativen Statistik. 19.

546. Bern. E. Statistisches Bureau. 20.

684. Paris. Soc. F. Statistique Universelle. 24.

901. London. Inst. Actuaries. 31.

938. Statistical Society. 32.

Statistics, and Topography.

484. Stuttgart. K. Statistisch-topographisches Bur. 18.

Stenography.

193. Berlin. Stenographischer Ver. 9.

Surgery. *See* Medicine.

Technology and Polytechny.

117. Delft. Bureau Technologique. 6.

187. Berlin. Polytechnische Ges. 9.

383. Leipzig. Polytechnische Ges. 15.

420. München. Polytechnischer Ver. 16.

523. Wien. Polytechnische Ges. 19.

534. Würzburg. Polytechnischer Ver. 20.

555. Geneve. Société des Arts. 20.

571. Zürich. École Polytechnique Féd. 21.

666. Paris. École Polytechnique. 24.

693. Soc. Polytechnique. 25.

734. Milano. Istituto Tecnico. 26.

742. Soc. d'Incoragg. d'Arti e Mestieri. 26.

844. Edinburgh. R. Scottish Soc. of Arts. 29.

851. Falmouth. R. Cornwall Polytechnic Soc. 30.

872. Liverpool. L. Polytechnic Soc. 30.

891. London. Dep. Practical Art. 31.

913. London Mechanics' Inst. 31.

937. Soc. Arts, Man. and Commerce. 32.

991. Bombay. Bombay Mechanics' Inst. 34.

1009. Hobarton. Mechanics' Institute. 34.

1013. Launceston. Mechanics' Institute and School of Arts. 35.

1031. Kingston. R. Soc. of Arts of Jamaica. 35.

Thermal Waters. *See* Baths.

Topography. *See* Statistics.

Trade. *See* Industry.

Trade, Free. *See* Free Trade.

Universities (including Academies, etc.) *See also* Schools.

5. Lund. K. Universitetet. 1.

16. Upsala. K. Universitetet. 2.

22. Christiania. K. N. Universitetet. 2.

48. Dorpat. Universität. 3.

52. Helsingfors Universität. 3.

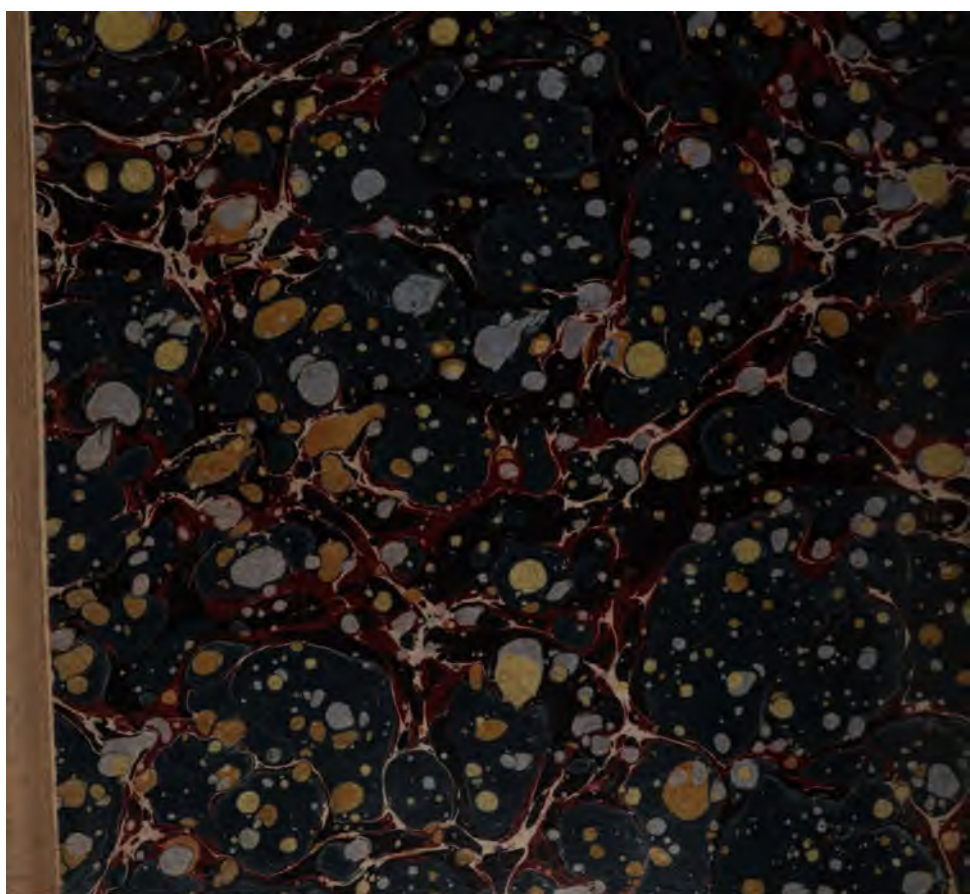
53. Kasan. Kazanskii Universitet. 3.

55. Kharkow. Universität. 3.

57. Kiew. Imp. Universitet. 3.

60. Moskwa. I. Universitet. 4.

87. **St. Petersburg.** I. St. Peterburgskii Universitet. 5.
123. **Groningen.** Academia Groningana. 6.
132. **Leiden.** Academia Lugduno-Batava. 7.
140. **Utrecht.** Acad. Rheno-Trajectina. 7.
194. **Berlin.** Universität. 9.
210. **Bonn.** Universität. 9.
225. **Breslau.** Universität. 10.
273. **Erlangen.** Universität. 11.
284. **Freiburg.** Universität. 12.
290. **Giessen.** Universität. 12.
298. **Göttingen.** Universität. 12.
308. **Greifswald.** Universität. 12.
314. **Halle.** Universität. 13.
331. **Heidelberg.** Universität. 13.
337. **Innsbruck.** Universität. 13.
353. **Kiel.** Universität. 14.
370. **Königsberg.** Universität. 14.
372. **Krakau.** Uniwersytet. 15.
386. **Leipzig.** Universität. 15.
406. **Marburg.** Universität. 16.
418. **München.** K. Universität. 16.
440. **Pesth.** Universität. 17.
455. **Prag.** Universität. 17.
464. **Rostock.** Universität. 17.
498. **Tübingen.** Universität. 19.
526. **Wien.** Universität. 19.
535. **Würzburg.** Universität. 20.
543. **Basel.** Universität. 20.
550. **Bern.** Universität. 20.
574. **Zürich.** Universität. 21.
587. **Gand.** Université. 21.
591. **Louvain.** Université. 21.
730. **Genova.** Università. 26.
764. **Pisa.** Università. 27.
773. **Siena.** Università (Osservatorio). 27.
781. **Torino.** Regia Università. 27.
787. **Venezia.** Mechitaristen-Collegium. 28.
789. **Coimbra.** University. 28.
807. **Belfast.** Queen's College. 28.
816. **Cambridge.** University. 29.
819. **Cork.** Queen's College. 29.
821. **Dublin.** Catholic College. 29.
827. **Trinity College.** 29.
849. **Edinburgh.** University. 29.
850. **Eton.** Eton College. 29.
852. **Galway.** Queen's College. 30.
855. **Glasgow.** University. 30.
940. **London.** University College. 32.
947. **Maynooth.** College Library. 32.
954. **Oxford.** Bodleian Library. 32.
962. **St. Andrews.** University. 33.
965. **Stonyhurst.** Stonyhurst College. 33.
971. **Athens.** University Library. 33.
985. **Allahabad.** Mission College. 34.
1000. **Ceylon.** Batticotta Seminary. 34.
1006. **Rourkee.** Thomason College. 34.
1017. **Melbourne.** Univ. of Melbourne. 35.
1021. **Sydney.** University of Sydney. 35.
1026. **Chuquisaca.** University. 35.
1030. **Habana.** Real Universidad. 35.
1032. **Lima.** Universidad. 35.
1049. **Santiago.** Universidad. 36.
- Universities, Journals of.**
2. **Scandinavia.** Nord. Univ. Tidsskrift. 1.
- Universities, Libraries of.** See Universities.
- Universities, Museums of.** See Museums.
- Universities, Observatories of.** See Observatories.
- Useful Knowledge.** See Industry.
- Utility.** See Amusement.
- Veterinary Science.**
38. **Kjöbenhavn.** Tidsskrift for Veterinær. 3.
39. Veterinær-Selskab. 3.
- Vine.** See Wine.
- War, Ministry of.**
669. **Paris.** Minist. de la Guerre. 24.
- Watchmaking.**
565. **Lausanne.** Soc. Industrielle d'Horlogerie. 21.
- Welfare, Provincial.** See Provincial.
- Wine Culture.**
478. **Stuttgart.** Ges. Weinverbesserung. 18.
- Zoology.** See also Botany; Mineralogy.
109. **Amsterdam.** K. Zoologisch G. "Natura Artis Magistra." 6.
281. **Frankfurt-am-Main.** Zoologische Ges. 12.
728. **Genova.** Arch. per la Zool., l'Anat. e la Phys. 26.
831. **Dublin.** Royal Zoological Soc. 29.
941. **London.** Zoological Society. 32.



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